

EXHIBIT CJ

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Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
<p>[1.0] A computing device comprising:</p>	<p>Google’s “Cast” technology enables an “Android, iOS, or Web app to direct its streaming video and audio to a TV or sound system,” where the app “becomes the remote control to play, pause, seek, rewind, stop, and otherwise control the media.” https://developers.google.com/cast.¹ In Google’s “Cast” framework, there are two core categories of devices: (1) “sender” devices, which are computing devices installed with a Cast-enabled Android, iOS, Chrome, or browser-based app accessed via either an app store or Chromecast-enabled site URL² (including youtube.com, music.youtube.com, tv.youtube.com, and spotify.com), and (2) “receiver” devices, which are Cast-enabled media players such as an audio or video playback device. <i>See, e.g.,</i> https://developers.google.com/cast/docs/developers; https://developers.google.com/cast/glossary; https://developers.google.com/cast/docs/ux_guidelines.</p> <p>There are many different Cast-enabled Android, iOS, Chrome, or browser-based apps that allow a user to transfer playback of streaming media content from the user’s smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app. This includes Google’s own Cast-enabled apps, such as the YouTube Music app, the YouTube app, the YouTube TV app, and the YouTube Kids app, as well as a host of different third-party Cast-enabled apps, such as the Spotify app. <i>See, e.g.,</i> https://support.google.com/chromecastbuiltin/answer/6279384?hl=en#zippy=%2Cbefore-you-begin-casting%2Ccast-from-chromecast-enabled-apps-to-your-audio-device%2Cfind-new-content-to-cast; https://www.google.com/chromecast/built-in/apps/. These Cast-enabled apps can be installed and run on any smartphone, tablet, or computer device that supports Android, iOS, Chrome, or browser-based apps, including Google’s own “Pixel” smartphone, tablet, and computer devices (<i>e.g.</i>, the Pixel, Pixel XL, Pixel 2, Pixel 2 XL, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, Pixel 4, Pixel 4 XL, Pixel 4a, Pixel 4a (5G), Pixel 5, Pixel 5a (5G), Pixel 6 phones, the Pixel Slate tablet, and the Pixelbook and Pixelbook Go laptops) as well as many third-party smartphone, tablet, or computer device. <i>See, e.g.,</i> https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs. For purposes of this chart, any smartphone, tablet, or computer device installed with a Cast-enabled Android, iOS, Chrome, or browser-based app (<i>e.g.</i>, accessed</p>

¹ Additional information regarding the accused instrumentalities is set forth in the Infringement Contention Chart for U.S. Patent No. 9,967,615 (Ex. A), which is incorporated herein by reference.

² *See, e.g.,* <https://support.google.com/chromecast/answer/3265953?hl=en>.

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	<p>via an app store or Chromecast-enabled site URL) that allows a user to transfer playback of streaming media content from the smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app will be referred to as a “Cast-enabled computing device.”</p> <p>As set out in the Supplemental Infringement Contentions, Sonos has endeavored to list the possible third-party smartphone, tablet, and computer devices that may have been used to download and install one or more accused Cast-enabled apps between May 2018 to present. <i>See</i> Appx. 1. Each of these third-party smartphone, tablet, and computer devices, when installed with at least one Cast-enabled app, meets all elements of the claims as explained in more detail herein. As set forth below, Sonos cites representative examples of Google smartphone, tablet, and computer devices meeting elements 1.1, 1.2, and 1.3, but notes that the hardware aspects recited in elements 1.1, 1.2, and 1.3 have become ubiquitous among all smartphone, tablet, and computer devices. Each possible third-party smartphone, tablet, and computer device listed in Appendix 1 contains these aspects and thus meets elements 1.1, 1.2, and 1.3.</p> <p>There are also many different Cast-enabled media players to which playback of streaming media content can be transferred from a Cast-enabled computing device. This includes Google’s own Cast-enabled media players, such as the Home Mini, Nest Mini, Home, Home Max, Home Hub, Nest Hub, Nest Hub Max, Nest Wifi Point, Chromecast, Chromecast Audio, Chromecast Ultra, Chromecast with Google TV, and Nest Audio media players, as well as various other third-party media players with built-in Cast functionality. <i>See, e.g.,</i> https://store.google.com/us/product/google_home_max?hl=en-US; https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US; https://www.google.com/chromecast/built-in/audio/.</p> <p>Certain of these Cast-enabled media players also include a display screen and firmware that enables the Cast-enabled media players to additionally function as a control device for other Cast-enabled media players. This sub-category of Cast-enabled media players, which will be referred to herein as “Cast-enabled displays,” includes Google’s Home Hub, Nest Hub, and Nest Hub Max media players. <i>See, e.g.,</i> https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music; https://store.google.com/us/product/google_nest_hub_max?hl=en-US; https://support.google.com/googlenest/answer/9165738?hl=en. Similar to the Cast-enabled computing devices, these Cast-enabled displays have Cast-enabled software (e.g., firmware and/or Cast-enabled apps)</p>

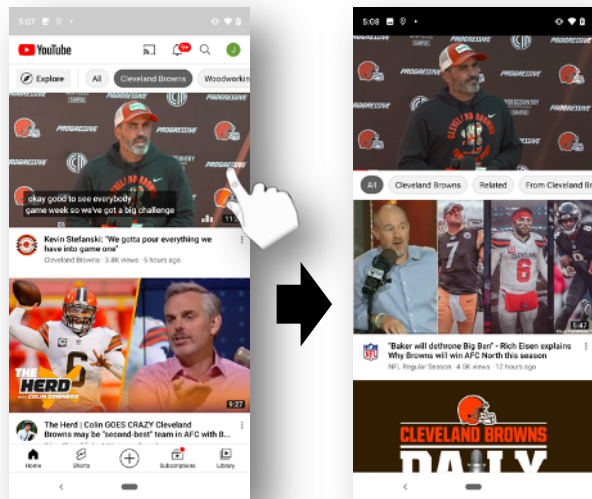
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	<p>that allows a user to transfer playback of streaming media content from the Cast-enabled display to another Cast-enabled media player and then control that other Cast-enabled media player’s playback using the Cast-enabled display’s user interface. For purposes of this chart, Cast-enabled computing devices and Cast-enabled displays may be referred to collectively as “Cast-enabled control devices.”</p> <p>Google also hosts backend software on Cloud-based infrastructure owned and/or operated by Google (sometimes referred to as Google Cloud Platform or “GCP” for short) that facilitates the aforementioned Cast functionality for transferring playback of streaming media content from a Cast-enabled control device to a Cast-enabled media player and/or controlling the Cast-enabled media player’s playback.</p> <p>As described in further detail below, each Cast-enabled control device is a “computing device,” as recited in claim 1. Further, because each Cast-enabled media player is a data network device (<i>i.e.</i>, a device that is configured to connect to and communicate over a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other) and is configured to process and output audio, each Cast-enabled media player is a “playback device” as recited in claim 1. <i>See, e.g.</i>, Pl.’s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 4-6, 23-26, Exs. 24-25; Pl.’s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 2-3, 10-12, Exs. 26-27; SONOS-SVG2-00018184 - SONOS-SVG2-00018236 [ITC Order No. 20] at p. 15; https://support.google.com/googlenest/answer/7072284?hl=en; https://support.google.com/chromecast/answer/3046409?hl=en; https://store.google.com/us/product/nest_wifi_specs?hl=en-US.</p>
[1.1] at least one processor;	<p>Each Cast-enabled control device includes at least one processor. <i>See, e.g.</i>, https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs; https://store.google.com/us/product/google_home_max?hl=en-US.</p>
[1.2] a non-transitory computer-readable medium;	<p>Each Cast-enabled control device includes a non-transitory computer-readable medium. <i>See, e.g.</i>, https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs; https://store.google.com/us/product/google_home_max?hl=en-US.</p>

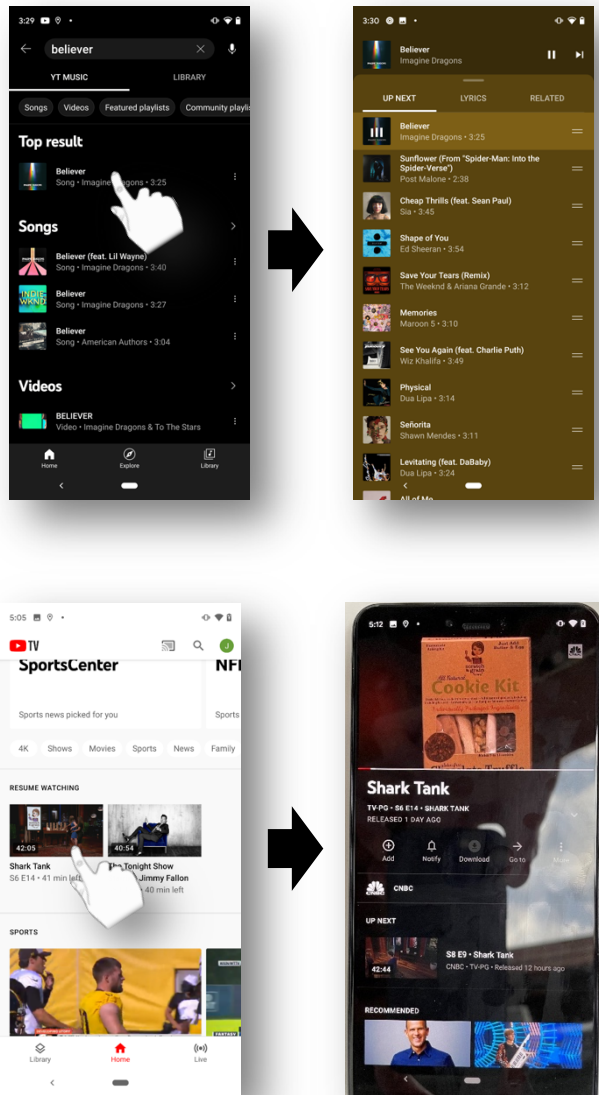
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<p>[1.3] and program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the computing device to perform functions comprising:</p>	<p>Each Cast-enabled control device includes program instructions stored on the non-transitory computer-readable medium that enable the Cast-enabled control device to perform the functions identified below. <i>See, e.g.,</i> https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs; https://store.google.com/us/product/google_home_max?hl=en-US.</p>
<p>[1.4] operating in a first mode in which the computing device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service;</p>	<p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device’s non-transitory computer-readable medium that, when executed by the Cast-enabled control device’s processor, cause the Cast-enabled control device to operate in a first mode in which the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service.</p> <p>For instance, each Cast-enabled computing device is programmed with the capability to operate in a mode in which the Cast-enabled computing device is configured for playback of a remote playback queue provided by a cloud-based computing system that takes the form of one or more cloud servers associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc. or a third-party service such as Spotify, etc.) that are remote from the Cast-enabled computing device and accessible over the Internet, which may be operated by Google or a third-party service provider. <i>See, e.g.,</i> https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]; https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch</p>

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	<p>YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab]; https://support.google.com/youtube/answer/6327615?hl=en [Autoplay videos]; https://developers.google.com/cast/docs/web_receiver/queueing; https://developers.google.com/cast/docs/ios_sender/queueing; https://developers.google.com/cast/docs/android_sender/queueing; <i>see also, e.g.,</i> GOOG-SONOSWDTX-00042745 [REDACTED].</p> <p>Cast-enabled computing devices installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p> <div data-bbox="877 735 1465 1230">  </div>

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	 <p>The diagram illustrates the accused instrumentalities for Claim 1. It shows a sequence of user interface elements from two different applications. The top row shows a YouTube Music app search for 'believer', with a hand icon pointing to the top result, 'Believer' by Imagine Dragons. An arrow points to a second screen showing the 'UP NEXT' playlist for 'Believer'. The bottom row shows a YouTube SportsCenter app interface with a hand icon pointing to the 'Shark Tank' video thumbnail. An arrow points to a third screen showing the 'Shark Tank' video player.</p>

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	<div data-bbox="550 259 1793 526" data-label="Image"> </div> <p data-bbox="485 597 1856 711">Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:</p> <div data-bbox="1056 738 1287 1239" data-label="Image"> </div> <p data-bbox="485 1312 1887 1416">Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.,</i> https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p>

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Claim 1	Accused Instrumentalities
	<p>Each Cast-enabled display is also programmed with the capability to operate in a mode in which the Cast-enabled display is configured for playback of a remote playback queue provided by a cloud-based computing system that takes the form of one or more cloud servers associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, etc., or a third-party service such as Spotify, etc.) that are remote from the Cast-enabled display and accessible over the Internet, which may be operated by Google or a third-party service provider. See, e.g., https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music (“YouTube Music on demand. . . . Stream top music services.”); https://store.google.com/us/product/google_nest_hub_max?hl=en-US (“[J]am out with YouTube Music.”); https://support.google.com/googlenest/answer/9165738?hl=en (“With YouTube built-in to your Google Nest display, you can watch YouTube Originals, how-to videos and much more, seamlessly on your screen.”).</p> <p>Cast-enabled displays installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music apps, as illustrated by the following photos:</p> <div data-bbox="667 852 1724 1188"> </div>


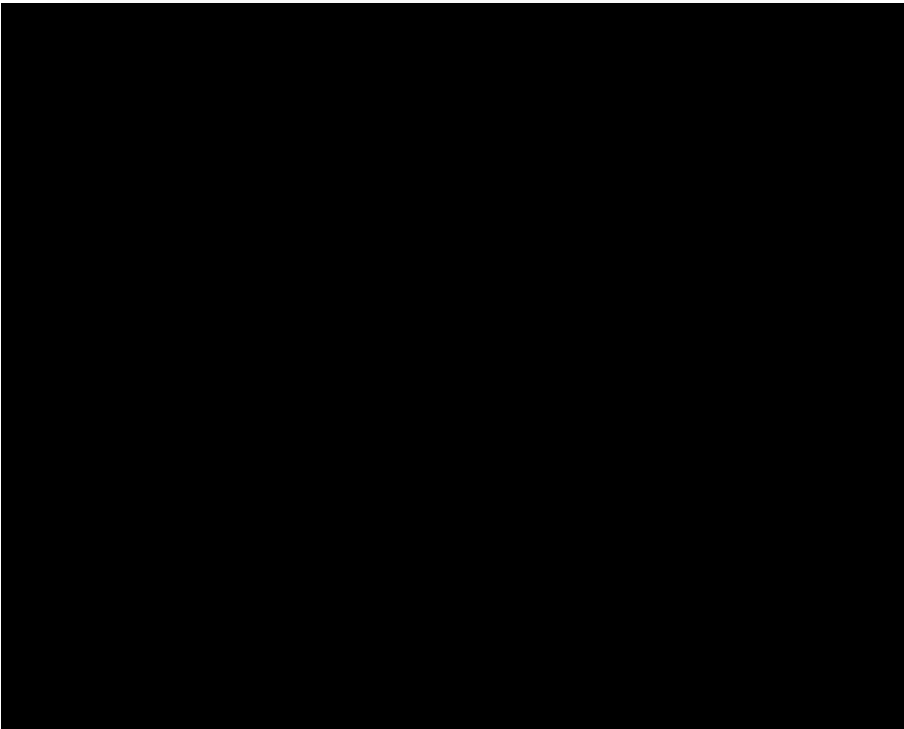
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Claim 1	Accused Instrumentalities
	<div data-bbox="659 228 1724 561" data-label="Image"> </div> <p data-bbox="489 597 1892 704">Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p> <div data-bbox="953 742 1434 1031" data-label="Image"> </div> <p data-bbox="489 1065 1755 1136">Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p data-bbox="489 1175 1772 1247">Further details regarding how a Cast-enabled control device carries out this functionality, along with representative examples of other evidence demonstrating this functionality, are summarized below.</p> <p data-bbox="489 1286 1327 1320"><u>YouTube, YouTube Music, YouTube TV, & YouTube Kids apps</u></p> <p data-bbox="489 1359 1892 1429">Each Cast-enabled computing device installed with any one of the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed such that it can operate in a mode in which the Cast-enabled computing</p>

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Claim 1	Accused Instrumentalities
	<p>device is configured for playback of a remote playback queue ([REDACTED]) provided by one or more cloud servers ([REDACTED]) associated with the YouTube, YouTube Music, YouTube TV, or YouTube Kids media service. The aforementioned functionality satisfies claim limitation 1.4.</p> <p>The following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:</p> <ul style="list-style-type: none"> • [REDACTED] • https://support.google.com/youtubekids/answer/6130531?hl=en [Recommended videos]; • https://support.google.com/youtubekids/answer/6138623?hl=en&co=GENIE.Platform%3DAndroid [Accessibility on YouTube Kids] (“When autoplay is turned on, we’ll automatically play another related video.”); • [REDACTED] • [REDACTED]

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Claim 1	Accused Instrumentalities
	<ul style="list-style-type: none">• • 
	<ul style="list-style-type: none">• <i>Id.</i> at 90-91;

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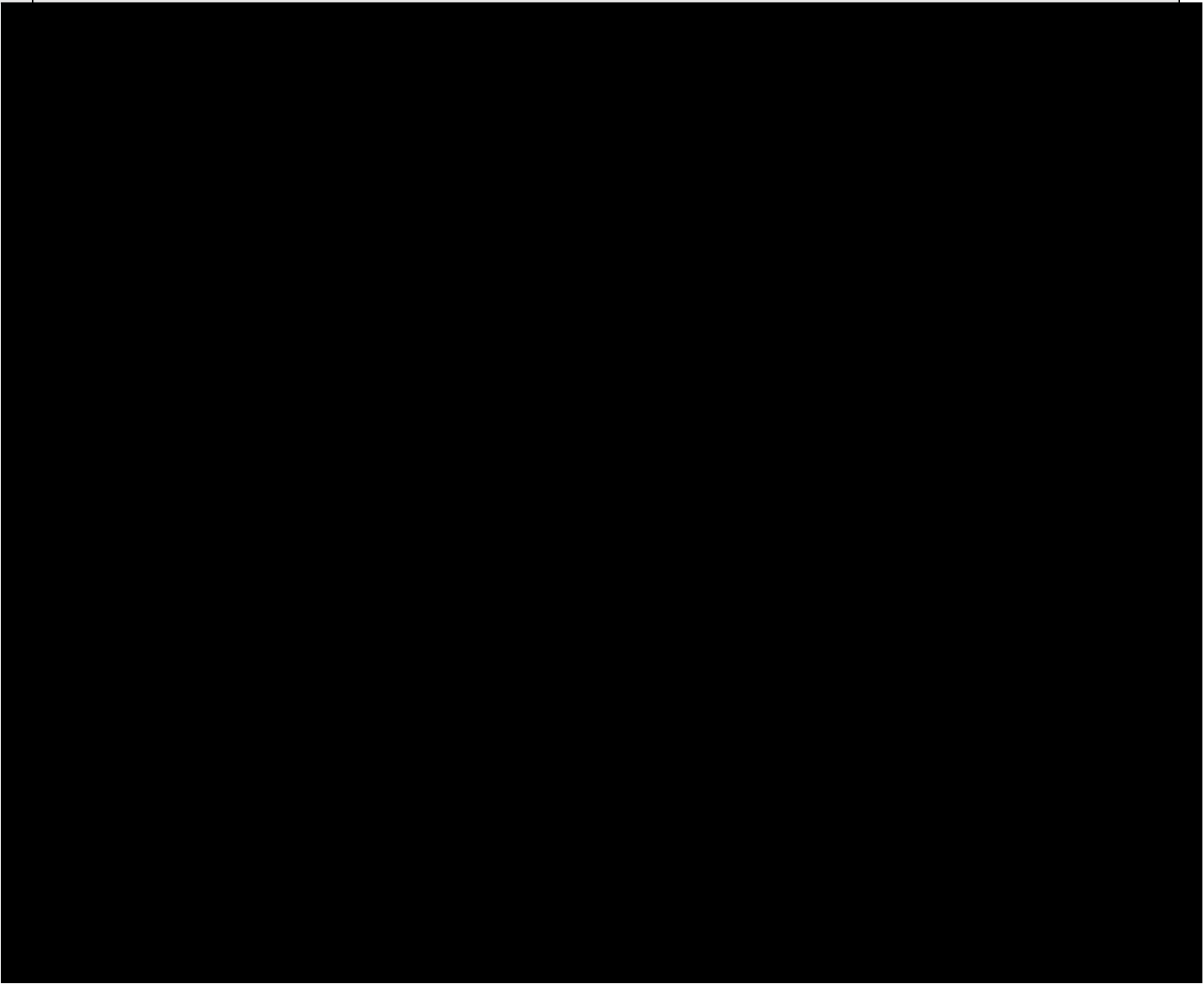
Claim 1	Accused Instrumentalities
	<ul style="list-style-type: none"><li data-bbox="535 240 1885 349">• [REDACTED] <p data-bbox="491 381 1860 451">Representative excerpts of Google’s YouTube app source code³ related to the aforementioned functionality include:</p> <div data-bbox="491 488 1890 911"><div>[REDACTED]</div></div> <ul style="list-style-type: none"><li data-bbox="535 943 1890 1351">• [REDACTED]

³ [REDACTED]

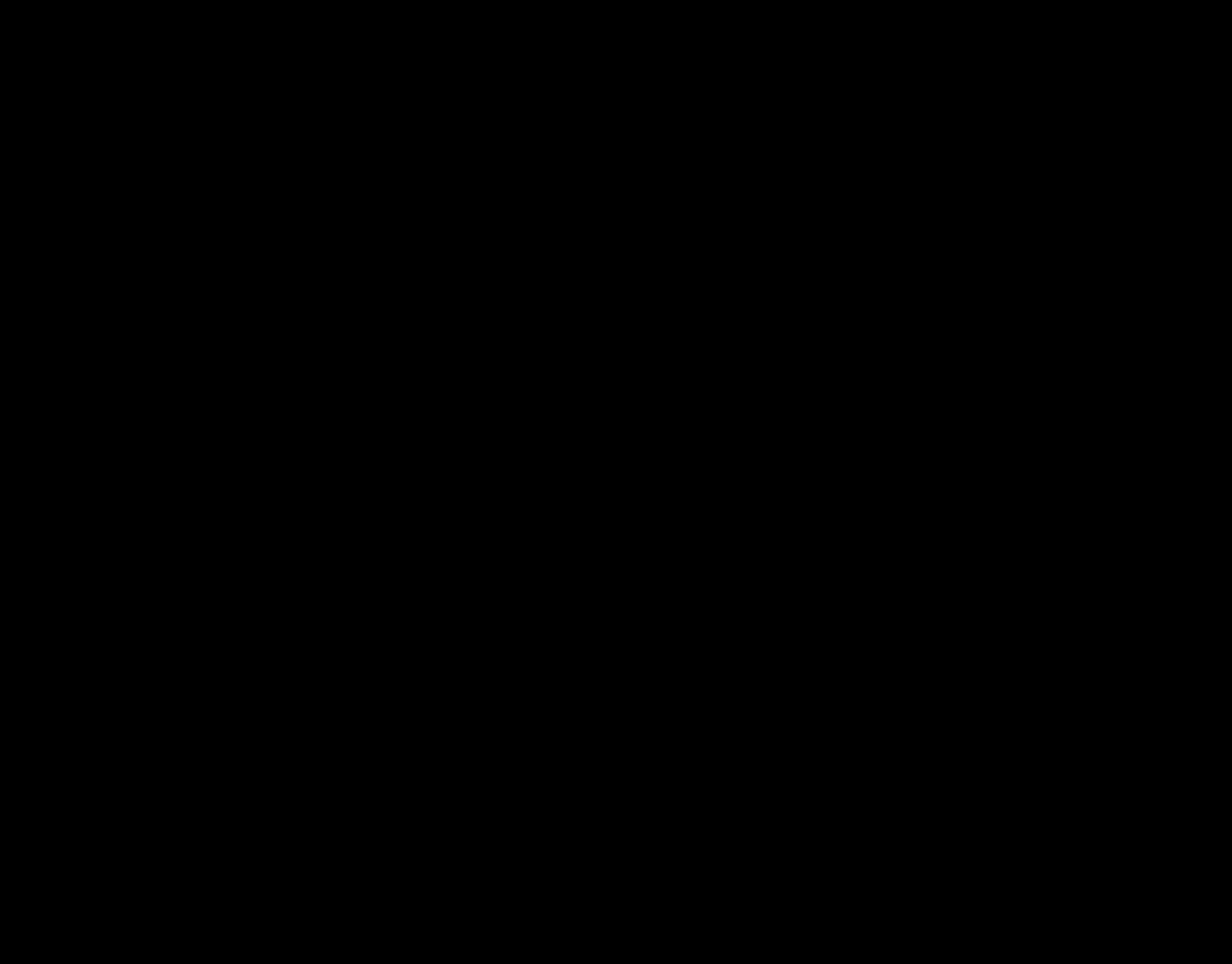
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Claim 1	
	

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Claim 1	
	

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


Claim 1	Accused Instrumentalities
	<div data-bbox="724 232 1885 657" style="background-color: black; width: 100%; height: 100%;"></div> <p data-bbox="489 690 1864 799">Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 15, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p data-bbox="489 836 640 873"><u>Spotify app</u></p> <p data-bbox="489 911 1885 1052">Each Cast-enabled computing device installed with the Spotify app is programmed such that it can operate in a mode in which the Cast-enabled computing device is configured for playback of a remote playback queue ([REDACTED]) provided by one or more cloud servers associated with the Spotify media service. The aforementioned functionality satisfies claim limitation 1.4.</p> <p data-bbox="489 1089 1864 1198">Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 15, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p data-bbox="489 1235 793 1273"><u>Cast-Enabled Displays</u></p> <p data-bbox="489 1310 1801 1383">Each Cast-enabled display is programmed such that it can operate in a mode in which the Cast-enabled display is configured for playback of a remote playback queue provided by one or more cloud servers</p>

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	<p>associated with a particular media service that the Cast-enabled display was selected to playback from (e.g., YouTube, YouTube Music, Spotify, etc.). The aforementioned functionality satisfies claim limitation 1.4.</p> <p>The following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <ul style="list-style-type: none"> • https://developers.google.com/cast/docs/web_receiver/queueing?hl=en (“Queueing allows partner applications to better integrate with Cast by providing the following features: Support of Google’s and partner’s cloud queue implementation so externally stored and created queue can be directly loaded into Cast devices.”). <p>Representative excerpts of Google’s Cast-enabled display source code⁶ related to the aforementioned functionality include:</p> <div data-bbox="436 735 1921 1349" style="background-color: black; height: 378px; width: 100%;"></div>

⁶ [REDACTED]

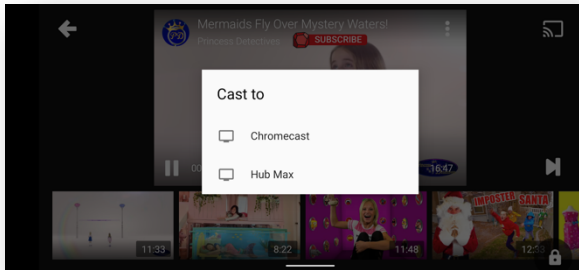
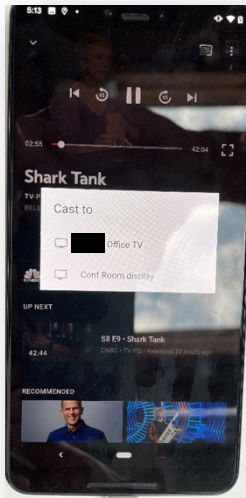
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	<p align="center">○ [REDACTED]</p> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 15, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p>
<p>[1.5] while operating in the first mode, displaying a representation of one or more playback devices in a media playback system that are each i) communicatively coupled to the computing device over a data network and ii) available to accept playback responsibility for the remote playback queue;</p>	<p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device’s non-transitory computer-readable medium that, when executed by the Cast-enabled control device’s processor, cause the Cast-enabled control device to, while operating in the first mode, display a representation of one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled control device over a data network and (ii) available to accept playback responsibility for the remote playback queue.</p> <p>For instance, each Cast-enabled computing device is programmed such that, while operating in a mode in which the Cast-enabled computing device is configured for playback of a remote playback queue provided by a cloud server associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc., or a third-party service such as Spotify, etc.), the Cast-enabled computing device is operable to detect a selection of a displayed selectable option ([REDACTED]) for transferring playback of audio content (e.g., music, podcasts, etc.) and/or audiovisual content (e.g., videos) from the Cast-enabled computing device to another device, which triggers the Cast-enabled computing device to display a list of available devices for transferring playback that includes one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled computing device over a Wi-Fi network and (ii) available to accept playback responsibility for the remote playback queue. <i>See, e.g.,</i> https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] (“Tap the Cast button  . . . Tap the speaker or display for which you’d like to cast.”); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] (“2. In the top right corner, tap the Cast button  3. Choose your speaker.”); https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com] (“Tap the Cast button  . . . Tap the Chromecast device to which you want to cast.”); https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast</p>

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	<p>YouTube TV using Chromecast] (“Tap Cast . This is found at the top of the app Home screen. [] Choose the device you want to cast to.”); https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab].</p> <p>Under the plain and ordinary meaning of the term “data network,” which is a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other, a Wi-Fi network is a “data network” as that term is used in claim 1. <i>See, e.g.</i>, Pl.’s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 23-26, Exs. 24-25; Pl.’s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 10-12, Exs. 26-27.</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p> <div data-bbox="879 812 1465 1307" data-label="Image"> </div>


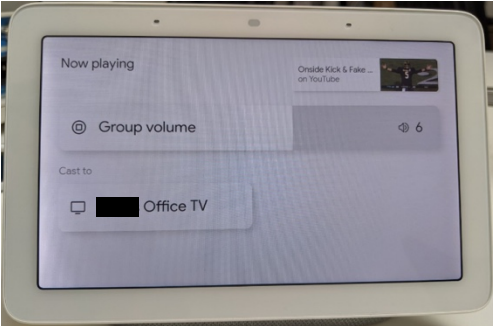
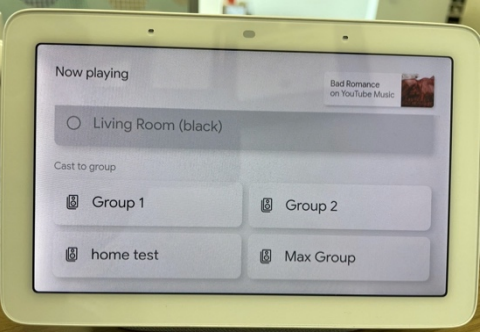
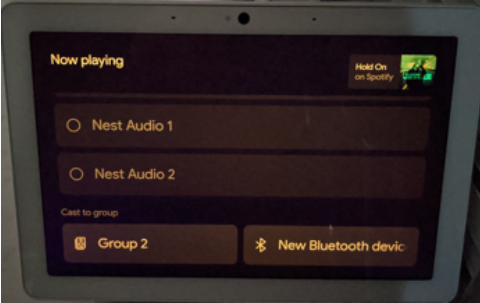
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	<div></div> <p><i>See also, e.g.,</i> GOOG-SONOSWDTX-00041499 [REDACTED]; GOOG-SONOSWDTX-00037739 [REDACTED] at 66-81.</p> <p>Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	<div data-bbox="1050 259 1291 763" data-label="Image"> </div> <p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.,</i> https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p> <p>Each Cast-enabled display is also programmed such that, while operating in a mode in which the Cast-enabled display is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, etc., or a third-party service such as Spotify, etc.), the Cast-enabled display is operable to detect a selection of a displayed selectable option ([REDACTED] ”) for transferring playback of audio content (e.g., music, podcasts, etc.) and/or audiovisual content (e.g., videos) from the Cast-enabled display to another device, which triggers the Cast-enabled display to display a list of available devices for transferring playback that includes one or more other Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled display over a Wi-Fi network and (ii) available to accept playback responsibility for the remote playback queue. <i>See, e.g.,</i> https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to</p>

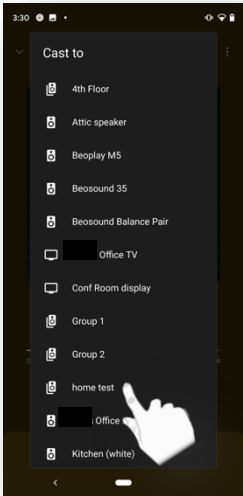
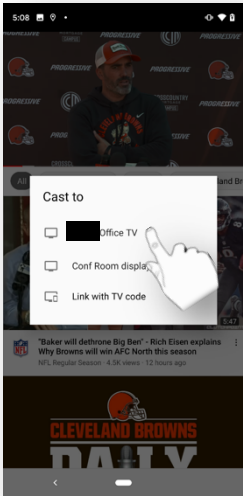
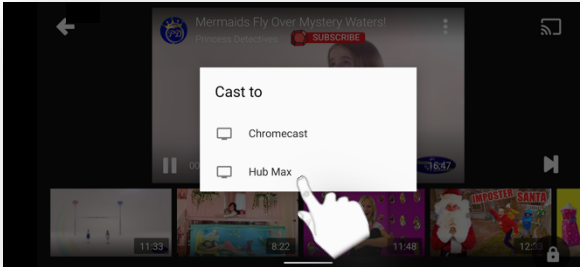
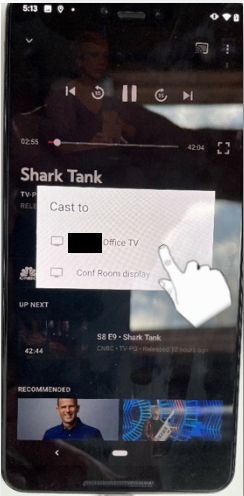
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	<p>another] (“At the bottom-left corner of the screen, tap Devices  to see the list of available devices and speaker groups. . . . Select the device for which you want to move your media.”).</p> <p>Cast-enabled displays installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music apps, as illustrated by the following photos:</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p> <div style="text-align: center;">  </div> <p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	<p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p>
<p>[1.6] while displaying the representation of the one or more playback devices, receiving user input indicating a selection of at least one given playback device from the one or more playback devices;</p>	<p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device’s non-transitory computer-readable medium that, when executed by the Cast-enabled control device’s processor, cause the Cast-enabled control device to, while displaying the representation of the one or more Cast-enabled media players, receive user input indicating a selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players.</p> <p>For instance, each Cast-enabled computing device is programmed such that, while displaying the representation of the one or more Cast-enabled media players in a Cast-enabled playback system that are each on the same Wi-Fi network as the Cast-enabled computing device and available to accept playback responsibility for the remote playback queue, the Cast-enabled computing device is configured to receive user input indicating a selection of at least one Cast-enabled media player in the Cast-enabled playback system, which is the claimed “at least one given playback device” selected from “the one or more playback devices.” <i>See, e.g.</i>, https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] (“Tap the speaker or display for which you’d like to cast.”); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] (“3. Choose your speaker.”); https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com] (“Tap the Chromecast device to which you want to cast.”); https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast] (“4. Choose the device you want to cast to.”); https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another].</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p>

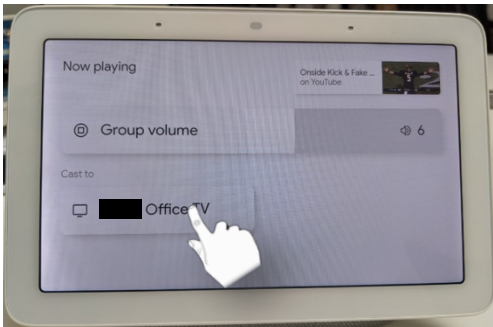
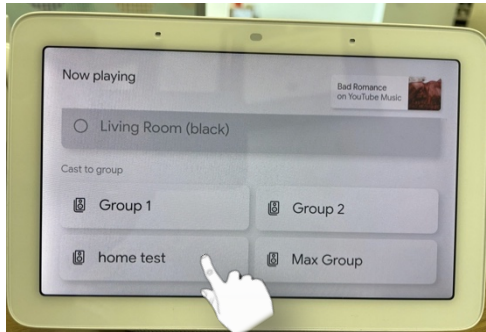
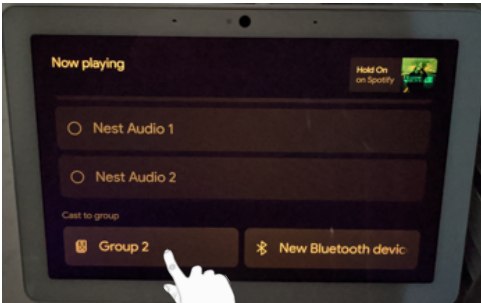
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	<div></div> <div></div>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<p data-bbox="489 237 1829 305"><i>See also, e.g.</i>, GOOG-SONOSWDTX-00041499 [REDACTED] GOOG-SONOSWDTX-00037739 [REDACTED] at 66-81.</p> <p data-bbox="489 345 1854 451">Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:</p> <div data-bbox="1058 483 1293 984">  </div> <p data-bbox="489 1052 1887 1157">Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.</i>, https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p> <p data-bbox="489 1198 1877 1414">Each Cast-enabled display is also programmed such that, while displaying the representation of the one or more other Cast-enabled media players in a Cast-enabled playback system that are each on the same Wi-Fi network as the Cast-enabled display and available to accept playback responsibility for the remote playback queue, the Cast-enabled display is configured to receive user input indicating a selection of at least one other Cast-enabled media player in the Cast-enabled playback system, which is the claimed “at least one given playback device” selected from “the one or more playback devices.” <i>See, e.g.</i>,</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 1	Accused Instrumentalities
	<p data-bbox="489 235 1816 305">https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another] (“Select the device(s) to which you want to move your media.”).</p> <p data-bbox="489 342 1877 451">Cast-enabled displays installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music apps, as illustrated by the following photos:</p> <div data-bbox="678 492 1167 816">  </div> <div data-bbox="1228 487 1711 816">  </div> <p data-bbox="489 854 1890 963">Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p> <div data-bbox="919 963 1396 1263">  </div> <p data-bbox="489 1263 1753 1333">Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.
<p>[1.7] based on receiving the user input, transmitting an instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device, wherein the instruction configures the at least one given playback device to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one</p>	<p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device’s non-transitory computer-readable medium that, when executed by the Cast-enabled control device’s processor, cause the Cast-enabled control device to, based on receiving the user input, transmit an instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device, wherein the instruction configures the at least one given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service, and (iii) play back the retrieved at least one media item.</p> <p>For instance, each Cast-enabled control device is programmed such that, based on receiving user input indicating a selection of at least one Cast-enabled media player in the Cast-enabled playback system that is on the same Wi-Fi network as the Cast-enabled control device and available to accept playback responsibility for the remote playback queue, the Cast-enabled control device is operable to transmit an instruction for the at least one Cast-enabled media player (which is the claimed “at least one given playback device”) to take over responsibility for playback of the remote playback queue from the Cast-enabled computing device, where the instruction configures the at least one Cast-enabled media player to:</p> <ul style="list-style-type: none"> • communicate with one or more cloud servers associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc., or a third-party service such as Spotify, etc.) that is remote from the Cast-enabled computing device and the at least one Cast-enabled media player and accessible over the Internet, which may be operated by Google or a third-party service provider, in order to obtain data identifying a next one or more media items that are in the remote playback queue (e.g., resource locators for such media items), • use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and • play back the retrieved at least one media item.

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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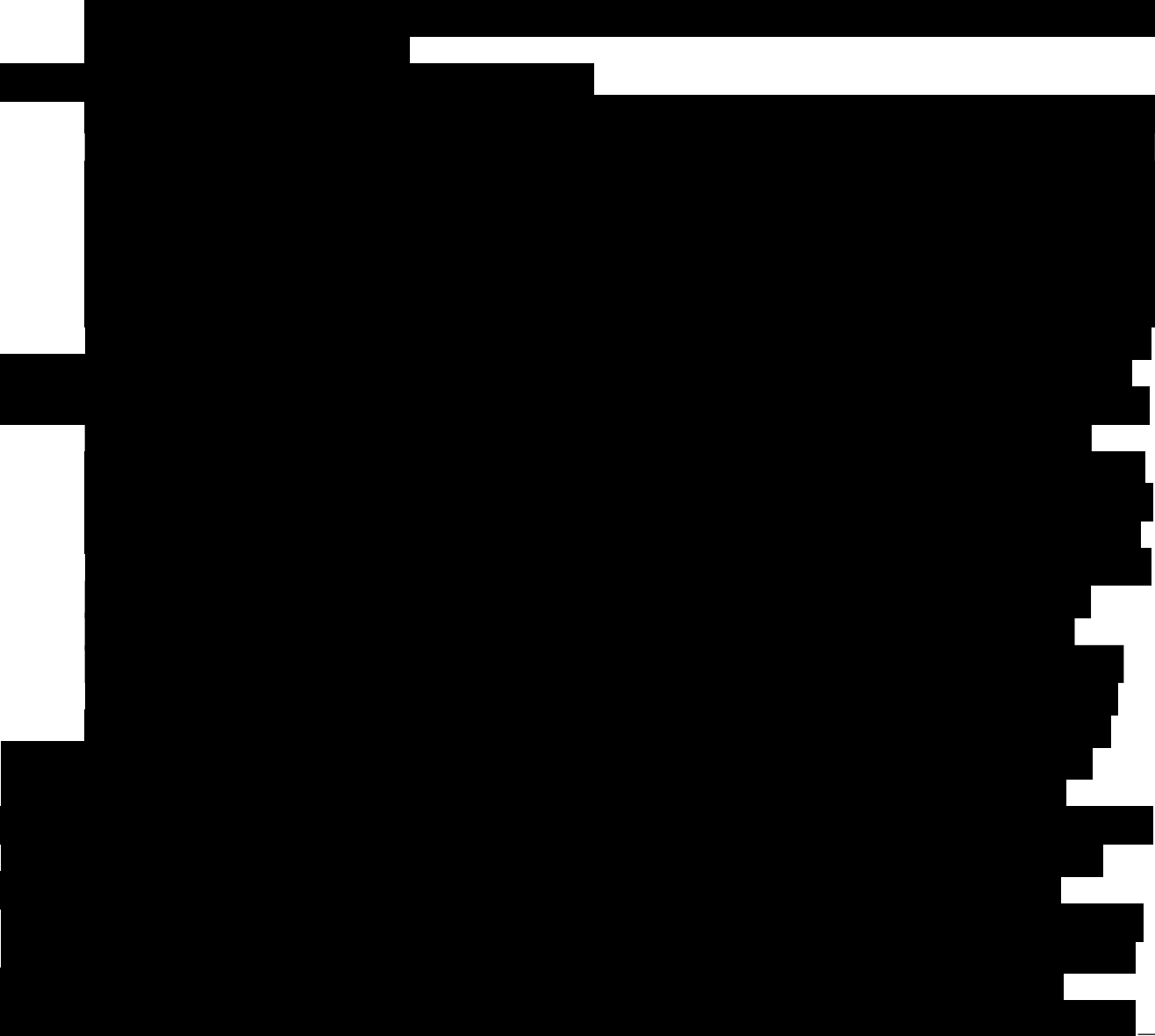
Claim 1	Accused Instrumentalities
media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item;	<p><i>See, e.g.,</i> https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display]; https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]; https://developers.google.com/cast/docs/web_receiver/queueing; https://developers.google.com/cast/docs/ios_sender/queueing (“The Web Receiver SDK maintains the queue and responds to operations on the queue as long as the queue has at least one item currently active (playing or paused).”); https://developers.google.com/cast/docs/android_sender/queueing (“The Receiver SDK maintains the queue and responds to operations on the queue as long as the queue has at least one item currently active (playing or paused).”).</p> <p>As noted above, Google’s own documents acknowledge that each Cast-enabled media player (often referred to by Google as a “[REDACTED]”⁷) is programmed to maintain a local playback queue of one or more resource locators, each for multimedia content (e.g., a song or video) that is to be played back by the Cast-enabled media player. <i>See, e.g.,</i> [REDACTED]</p>

⁷ *See, e.g.,* [REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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[illegible]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<div data-bbox="489 228 1787 493" style="background-color: black; height: 163px; width: 100%;"></div> <p data-bbox="489 526 1772 597">Further details regarding how a Cast-enabled control device carries out this functionality, along with representative examples of evidence demonstrating this functionality, are summarized below.</p> <p data-bbox="489 634 1325 670"><u>YouTube, YouTube Music, YouTube TV, & YouTube Kids apps</u></p> <p data-bbox="489 708 1887 852">Each Cast-enabled computing device installed with any one of the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed such that, after receiving user input indicating a selection of at least one particular Cast-enabled media player in the Cast-enabled playback system that is to take over playback responsibility, the Cast-enabled computing device functions to:</p> <ul style="list-style-type: none"> <li data-bbox="537 857 1887 1422">• (i) <div data-bbox="583 857 1887 1422" style="background-color: black; height: 348px; width: 100%;"></div>

Ex. B – Infringement Contention Chart: U.S. Patent No. 10,779,033
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[illegible]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	<ul style="list-style-type: none">• Sonos notes that Google did not produce for review the source code defining [REDACTED] and [REDACTED];• Sonos notes that Google did not produce for review the source code defining [REDACTED]¹²• Sonos also notes that Google did not produce for review the source code [REDACTED]¹³

¹¹ [REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	<div>■ [REDACTED]</div> <div>■ [REDACTED]</div> <div>■ [REDACTED]</div> <p>The messages that are sent by the Cast-enabled computing device as part of this process individually or collectively amount to the claimed “instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device.”</p> <p>Moreover, Sonos contends that the data contained in Google’s [REDACTED] amounts to the claimed “obtain[ed] data identifying a next one or more media items that are in the remote playback queue.”</p> <p>The following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed to perform this functionality:</p> <div>• [REDACTED]</div> <div>■ [REDACTED]</div> <div>■ [REDACTED]</div>

14 [REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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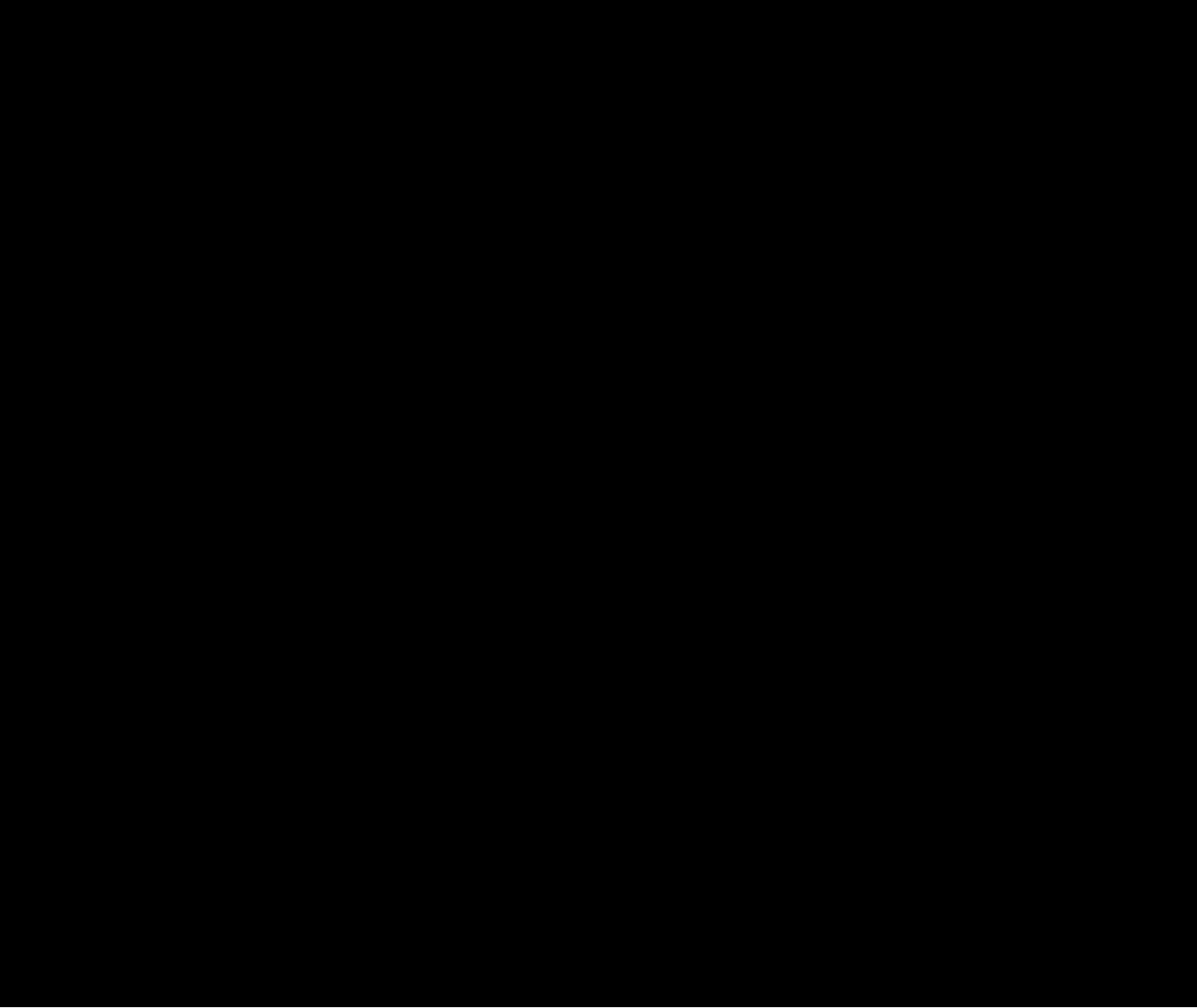
Claim 1	Accused Instrumentalities
	

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

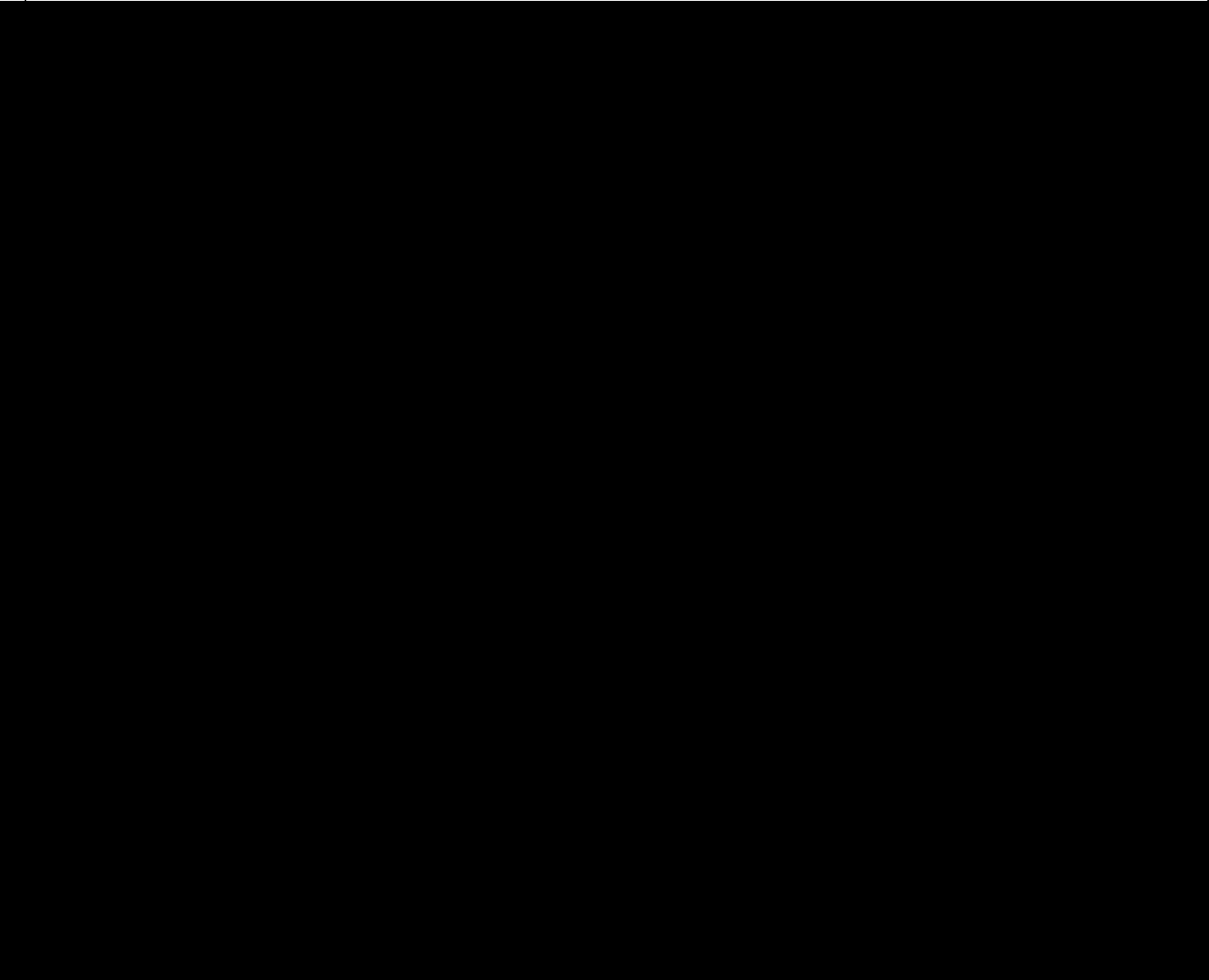
Claim 1	Accused Instrumentalities
	<ul style="list-style-type: none">• [REDACTED]• [REDACTED]• [REDACTED] <p>Representative excerpts of Google’s YouTube app source code¹⁵ related to the aforementioned functionality include:</p> <div><div>[REDACTED]</div></div> <ul style="list-style-type: none">• [REDACTED]

¹⁵ [REDACTED]

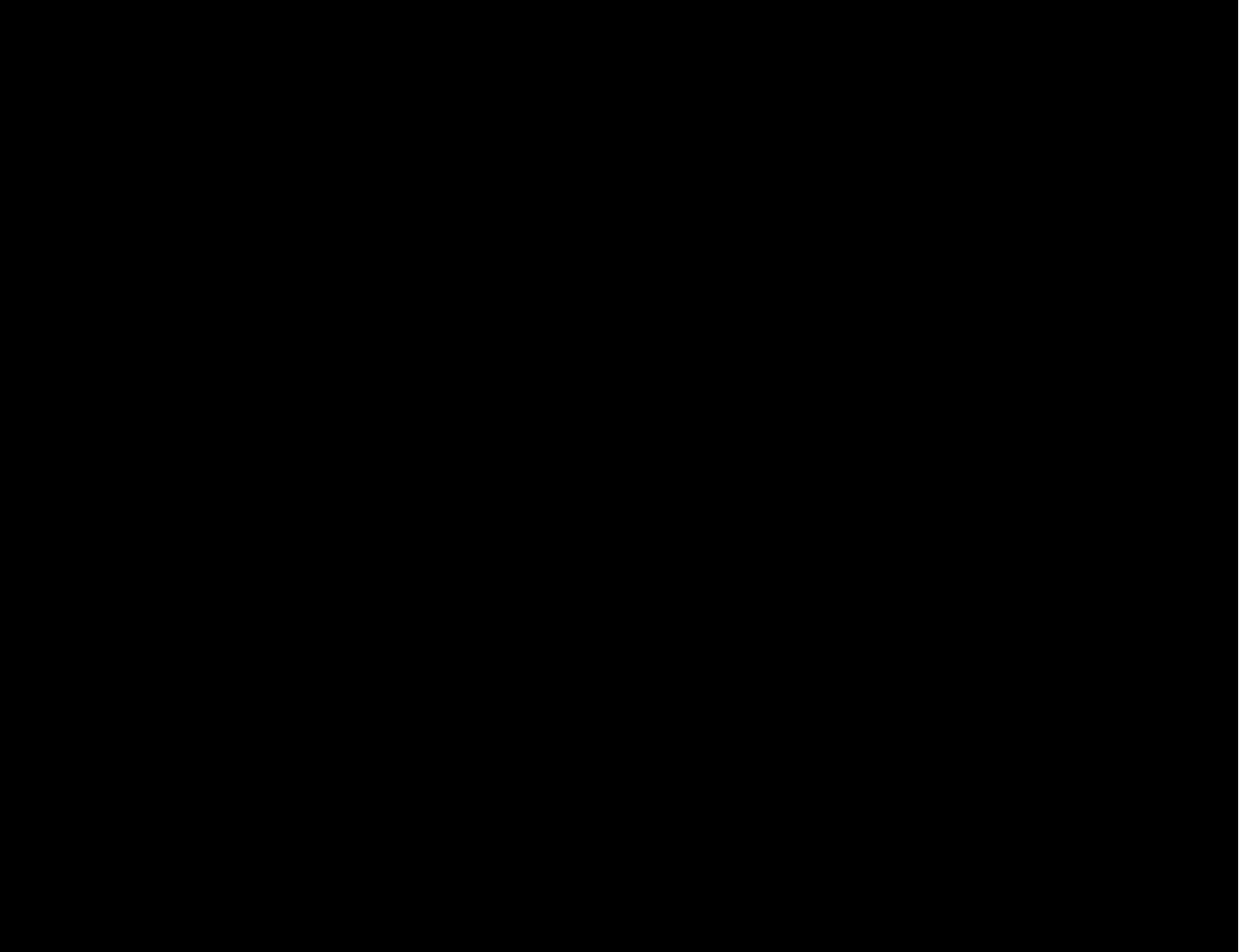
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

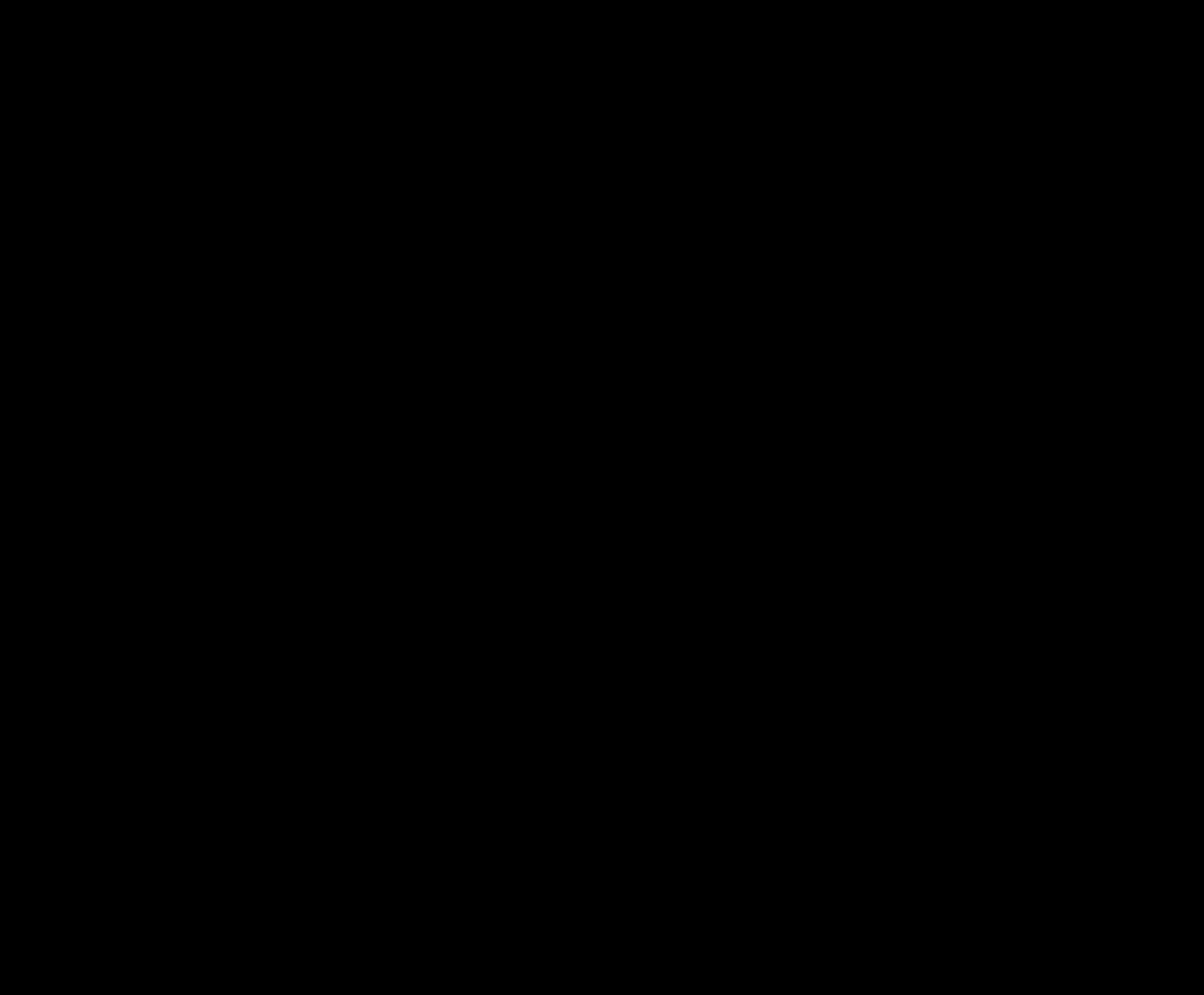
Claim 1	Accused Instrumentalities
	

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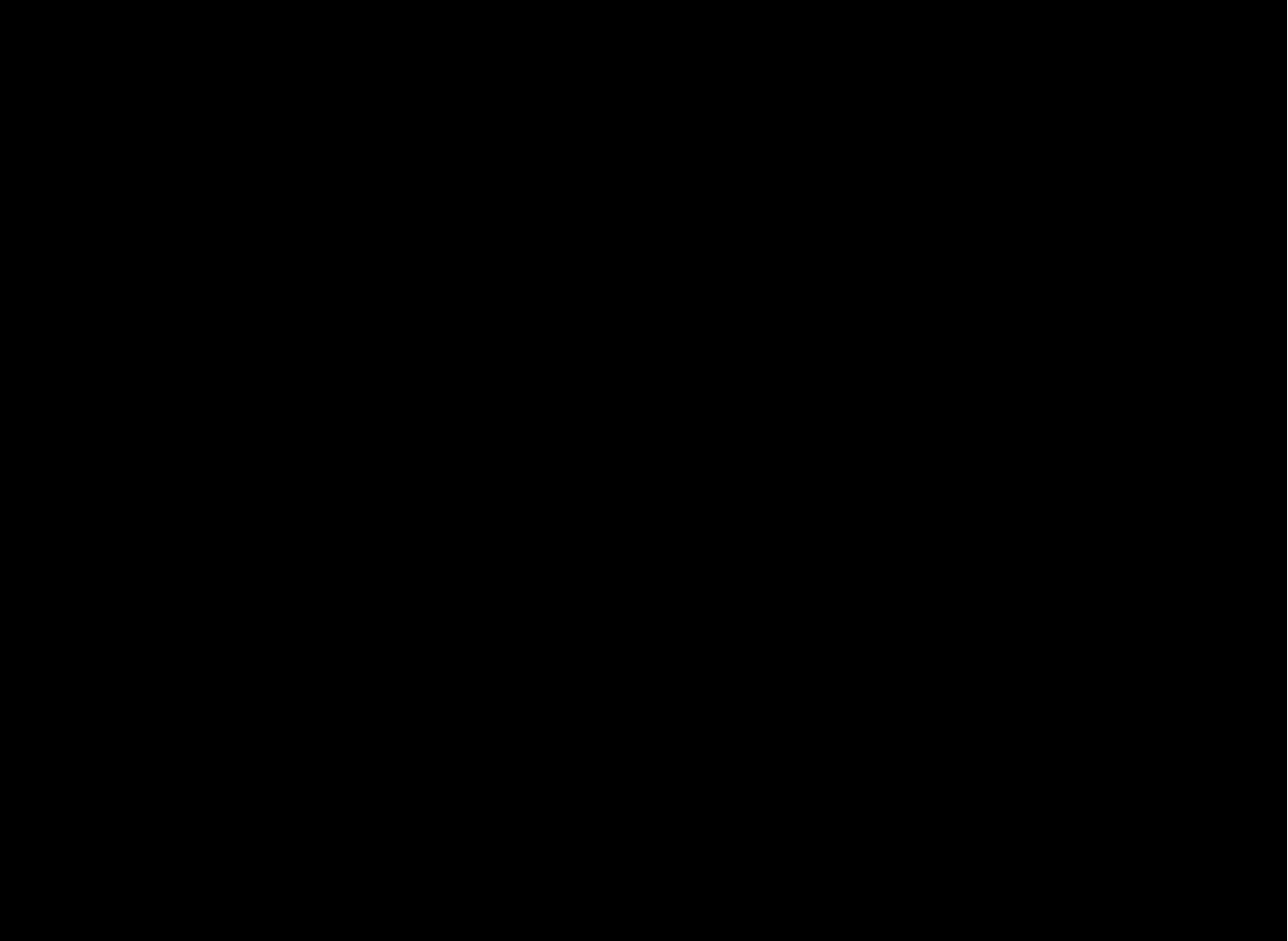
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

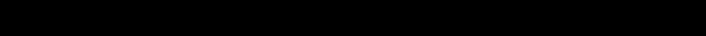
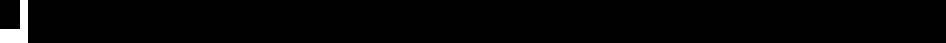
Claim 1	Accused Instrumentalities
	

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

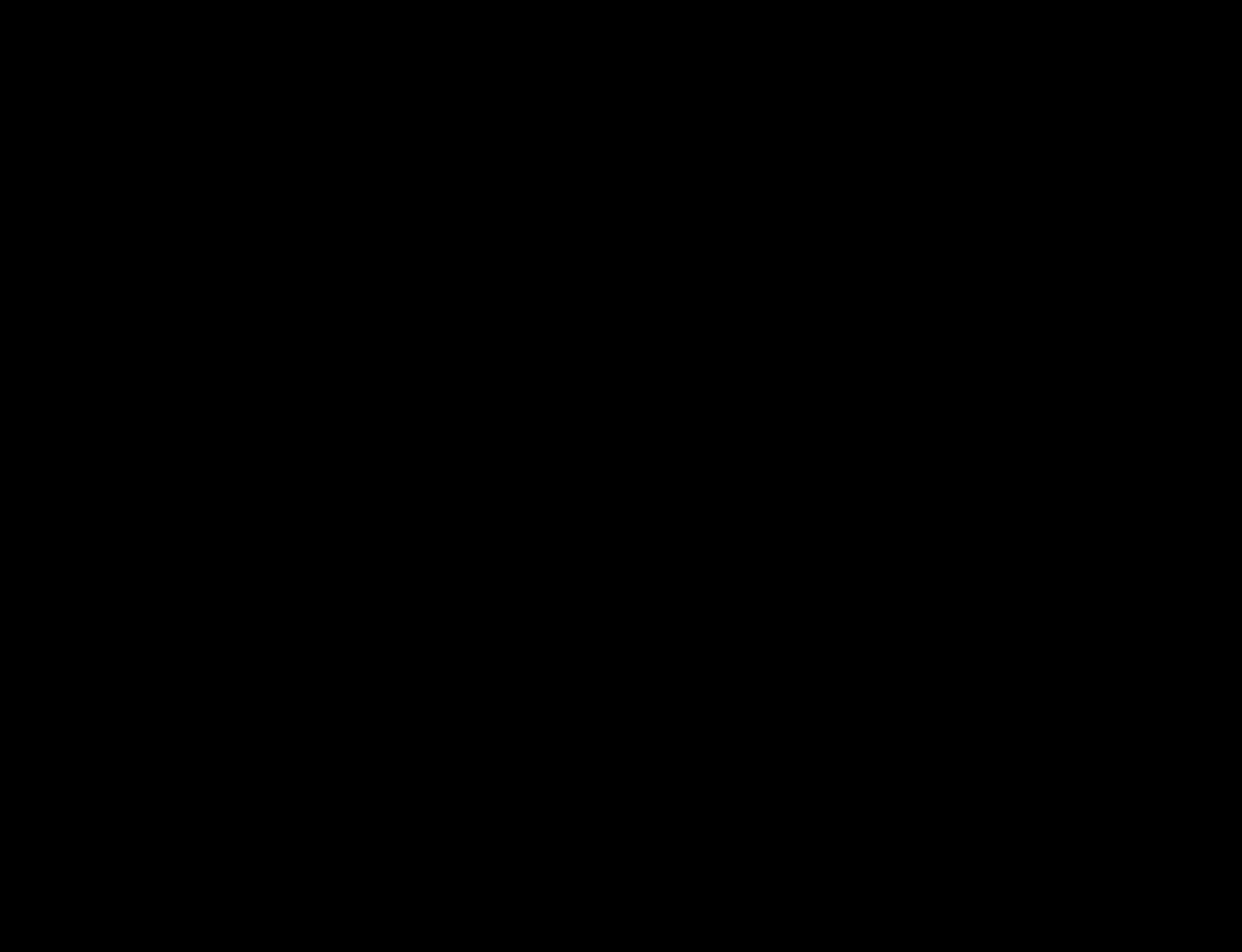
Claim 1	Accused Instrumentalities
	

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	
	

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Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	


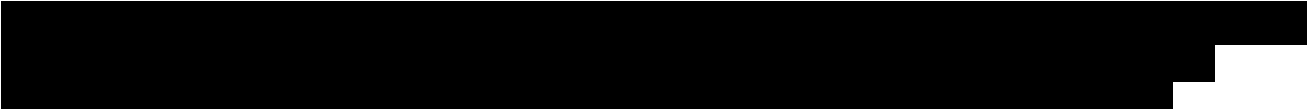
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	 <u>Spotify app</u>

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[illegible]


Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	<p>The following exemplary evidence demonstrates that each Cast-enabled control device installed with the Spotify app is programmed with this functionality:</p> <ul style="list-style-type: none"> <li data-bbox="541 342 1885 646">•  <li data-bbox="541 646 1892 781">• https://developers.google.com/cast/docs/web_receiver/queueing?hl=en (“Queueing allows partner applications to better integrate with Cast by providing the following features: Support of Google’s and partner’s cloud queue implementation so externally stored and created queue can be directly loaded into Cast devices.”); <li data-bbox="541 781 1780 824">• https://developers.google.com/cast/docs/reference/web_sender/chrome.cast.media.MediaInfo; <li data-bbox="541 824 1814 868">• https://developers.google.com/cast/docs/reference/web_sender/chrome.cast.media.LoadRequest. <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory Nos. 14-15, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><u>Cast-Enabled Displays</u></p> <p>Each Cast-enabled display is programmed such that, after receiving user input indicating a selection of at least one particular Cast-enabled media player in the Cast-enabled playback system that is to take over playback responsibility, the Cast-enabled display functions to:</p> <ul style="list-style-type: none"> <li data-bbox="541 1230 1885 1338">• 

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	<ul style="list-style-type: none"> • [REDACTED] <p>The messages that are sent by the Cast-enabled display as part of this process individually or collectively amount to the claimed “instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device.”</p> <p>The following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <ul style="list-style-type: none"> • https://developers.google.com/cast/docs/web_receiver/core_features (“Stream transfer[.] Preserving session state is the basis of stream transfer, a CAF feature where users can move existing audio and video streams across devices using ... smart displays. Media stops playing on one device (the source) and continues on another (the destination).... The event flow for stream transfer is: <ol style="list-style-type: none"> 1. On the source device:

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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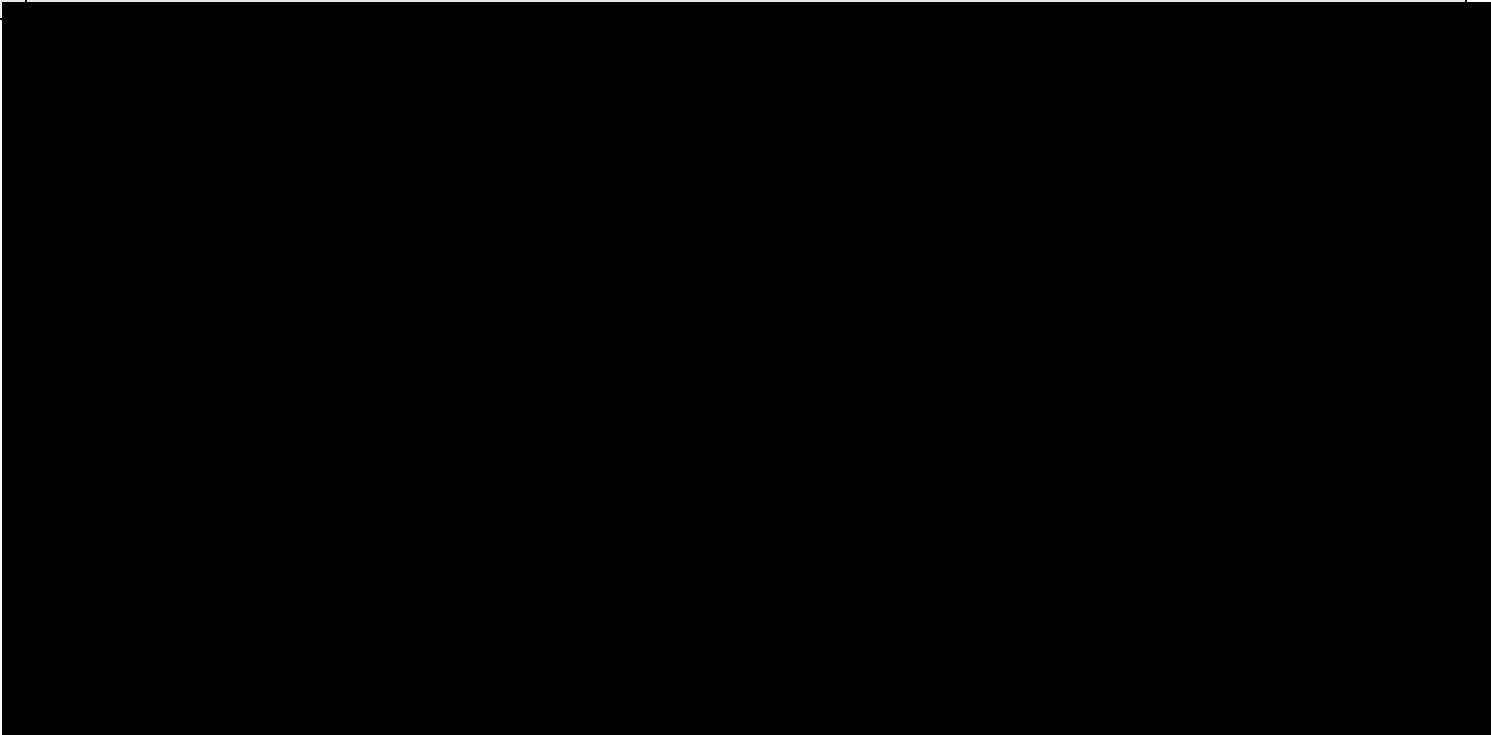
Claim 1	Accused Instrumentalities
	<p>a. Media stops playing.</p> <p>b. The Web Receiver application receives a command to save the current media state.</p> <p>c. The Web Receiver application is shut down.</p> <p>2. On the destination device:</p> <p>a. The Web Receiver application is loaded.</p> <p>b. The Web Receiver application receives a command to restore the saved media state.</p> <p>c. Media resumes playing.</p> <p>Elements of media state include:</p> <ul style="list-style-type: none"> • Specific position or timestamp of the song, video, or media item. • Its place in a broader queue (such as a playlist or artist radio). • The authenticated user. • Playback state (for example, playing or paused).”), <ul style="list-style-type: none"> • <i>Id.</i> (“Preserving session state[.] The Web Receiver SDK provides a default implementation for Web Receiver apps to preserve session states by taking a snapshot of current media status, converting the status into a load request, and resuming the session with the load request.”); • https://developers.google.com/cast/docs/reference/web_receiver/cast.framework.messages.LoadRequestData [Class: LoadRequestData]; • https://developers.google.com/cast/docs/reference/web_sender/chrome.cast.media.MediaInfo [Class: MediaInfo]; • 

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Claim 1	Accused Instrumentalities
	<div data-bbox="451 224 1921 1096" style="background-color: black; width: 100%; height: 537px;"></div> <p data-bbox="491 1133 1791 1203">Representative excerpts of Google’s Cast-enabled display source code²² related to the aforementioned functionality include:</p> <div data-bbox="491 1240 1218 1282" style="border: 1px solid black; background-color: black; width: 346px; height: 26px;"></div> <div data-bbox="535 1317 1236 1359" style="border: 1px solid black; background-color: black; width: 334px; height: 26px;"></div>

²² [REDACTED]

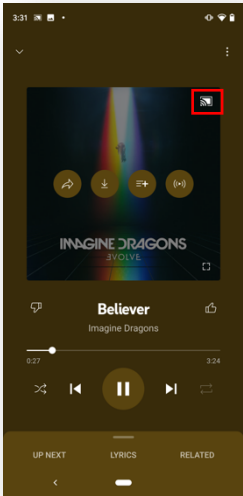
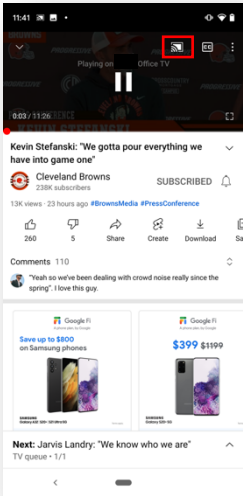
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	
	
	<p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory Nos. 14-15, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p>
<p>[1.8] detecting an indication that playback responsibility for the remote playback queue has been successfully transferred from the</p>	<p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device’s non-transitory computer-readable medium that, when executed by the Cast-enabled control device’s processor, cause the Cast-enabled control device to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled control device to the at least one given Cast-enabled media player.</p> <p>For instance, each Cast-enabled computing device is programmed with the capability to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-</p>

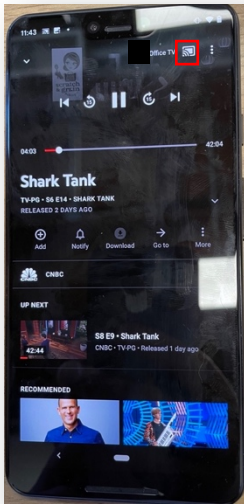
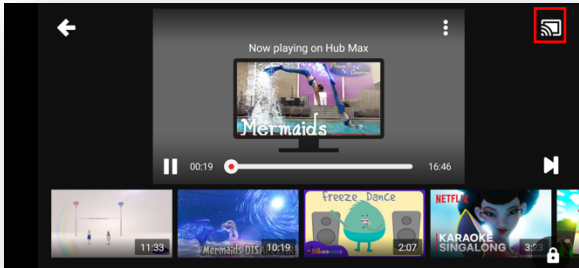
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
<p>computing device to the at least one given playback device;</p>	<p>enabled computing device to at least one Cast-enabled media player (which is the claimed “at least one given playback device”), which is demonstrated by the fact that the Cast-enabled computing device displays an indicator that playback responsibility for the remote playback queue has been successfully transferred to the at least one Cast-enabled media player that takes the form of a “Cast button” that is “filled in” or turns “dark grey” (among other factors confirming that the Cast-enabled computing device has detected an indication that playback responsibility for the remote playback queue has been successfully transferred to at least one Cast-enabled media player). <i>See, e.g.,</i> https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] (“When you're connected, the Cast button will turn from light to dark grey, letting you know that you're connected.”); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] (“The Cast button will change colors , letting you know you're connected.”); https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab].</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p>

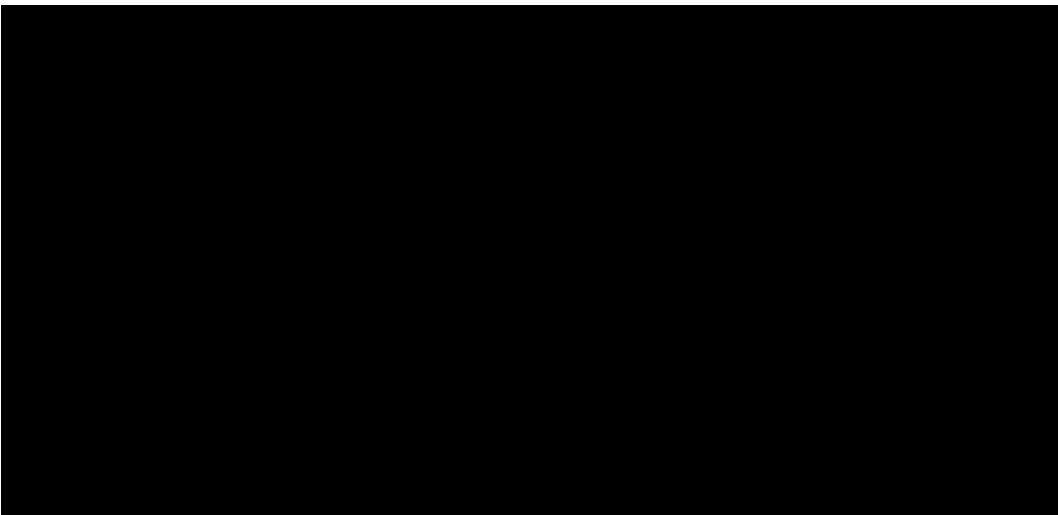
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<div></div>

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Claim 1	Accused Instrumentalities
	<div data-bbox="718 263 959 763"></div> <div data-bbox="1060 495 1635 760"></div> <p data-bbox="491 833 1856 898"><i>See also, e.g.,</i> GOOG-SONOSWDTX-00041499 [REDACTED] at 500:</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<div data-bbox="661 240 1713 751"></div> <p data-bbox="491 764 1856 873">Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:</p>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<div data-bbox="1050 259 1291 763" data-label="Image"> </div> <p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.,</i> https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p> <p>Each Cast-enabled display is also programmed with the capability to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled display to at least one other Cast-enabled media player, which is demonstrated by the fact that the Cast-enabled computing device displays an indicator that playback responsibility for the remote playback queue has been successfully transferred to the at least one other Cast-enabled media player that takes the form of a “Cast button” that is “filled in,” turns “dark grey,” and/or displays an indication associated with the Cast-enabled media player (among other factors confirming that the Cast-enabled display has detected an indication that playback responsibility for the remote playback queue has been successfully transferred to at least one Cast-enabled media player). <i>See, e.g.,</i> https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another].</p>

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Claim 1	Accused Instrumentalities
	<p>Cast-enabled displays installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music, as illustrated by the following photos:</p> <div data-bbox="667 378 1167 724" data-label="Image"> </div> <div data-bbox="1245 378 1724 724" data-label="Image"> </div> <p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p> <div data-bbox="974 906 1453 1196" data-label="Image"> </div> <p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p>Representative examples of other evidence demonstrating this functionality are summarized below.</p>

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Claim 1	Accused Instrumentalities
	<p><u><i>YouTube, YouTube Music, YouTube TV, & YouTube Kids apps</i></u></p> <p>In addition to the evidence cited above for limitation 1.7 and the YouTube, YouTube Music, and YouTube TV apps screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:</p> <ul style="list-style-type: none">• [REDACTED]• [REDACTED]• [REDACTED] <p>Representative excerpts of Google’s YouTube app source code²⁴ related to the aforementioned functionality include:</p> <div><div>[REDACTED]</div></div> <ul style="list-style-type: none">• [REDACTED]• [REDACTED]• [REDACTED]

24 [REDACTED]

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Claim 1	Accused Instrumentalities
	<div style="margin-left: 80px; margin-bottom: 10px;">○ [REDACTED]</div> <p>[REDACTED]</p> <p>Representative excerpts of Google’s YouTube Music app source code²⁵ related to the aforementioned functionality include:</p> <pre>[REDACTED]</pre> <ul style="list-style-type: none"> i. [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] <p>[REDACTED]</p> <p>Representative excerpts of Google’s Cast-enabled media player source code²⁶ related to the aforementioned functionality include:</p> <pre>[REDACTED]</pre>

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Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<div data-bbox="535 235 1507 332"> <ul style="list-style-type: none"> • [REDACTED] </div> <p data-bbox="489 365 1862 470">Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p data-bbox="489 511 640 544"><u>Spotify app</u></p> <p data-bbox="489 584 1862 657">The evidence cited above for limitation 1.7 and the Spotify app screenshots shown above demonstrates that each Cast-enabled control device installed with the Spotify app is programmed with this functionality.</p> <p data-bbox="489 698 1862 803">Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p> <p data-bbox="489 844 791 876"><u>Cast-Enabled Displays</u></p> <p data-bbox="489 917 1862 1023">In addition to the evidence cited above for limitation 1.7 and the Cast-enabled display screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <div data-bbox="535 1063 1890 1404"> <ul style="list-style-type: none"> • [REDACTED] </div>

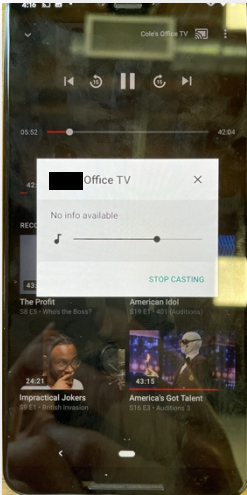
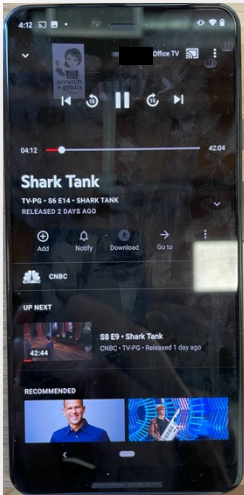
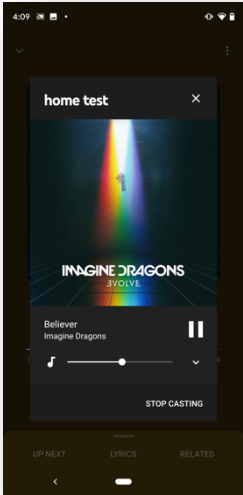

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Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.
<p>[1.9] after detecting the indication, transitioning from i) the first mode in which the computing device is configured for playback of the remote playback queue to ii) a second mode in which the computing device is configured to control the at least one given playback device’s playback of the remote playback queue and the computing device is no longer configured for playback of the remote playback queue.</p>	<p>Each Cast-enabled control device comprises program instructions stored on the Cast-enabled control device’s non-transitory computer-readable medium that, when executed by the Cast-enabled control device’s processor, cause the Cast-enabled control device to, after detecting the indication, transition from (i) the first mode in which the Cast-enabled control device is configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled control device is configured to control the at least one given Cast-enabled media player’s playback of the remote playback queue and the Cast-enabled control device is no longer configured for playback of the remote playback queue.</p> <p>For instance, each Cast-enabled computing device is programmed such that, after detecting the indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled computing device to at least one Cast-enabled media player in the Cast-enabled playback system that is on the same Wi-Fi network as the Cast-enabled computing device (which is the claimed “at least one given playback device”), the Cast-enabled computing device is configured to transition from (i) a first mode in which the Cast-enabled computing device was configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled computing device is configured to control the at least one Cast-enabled media player’s playback of the remote playback queue (while the Cast-enabled computing device itself is no longer configured for playback of the remote playback queue). <i>See, e.g.</i>, https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display]; https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab].</p>

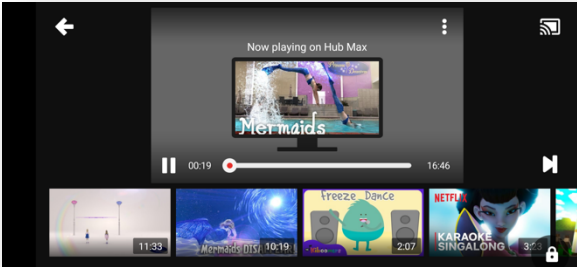
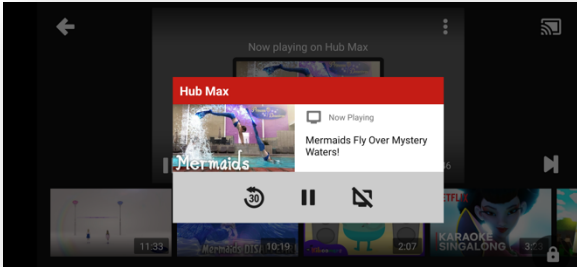

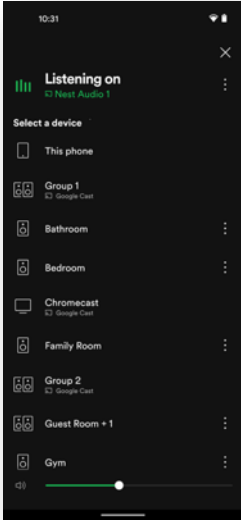
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	<p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p> <div data-bbox="884 375 1465 867"></div>

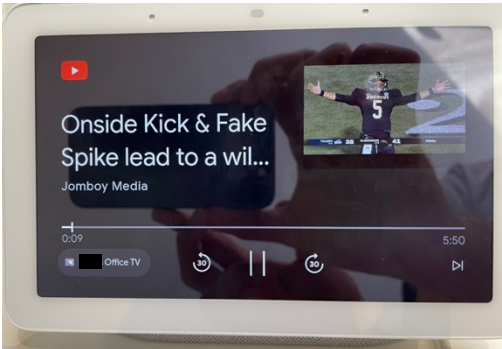

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<div></div>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<div data-bbox="554 264 1127 529"></div> <div data-bbox="1226 264 1799 529"></div> <p data-bbox="491 602 1856 711">Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshots:</p> <div data-bbox="888 781 1127 1297"></div> <div data-bbox="1226 781 1465 1297"></div>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.,</i> https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p> <p>Each Cast-enabled display is also programmed such that, after detecting the indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled display to at least one other Cast-enabled media player in the Cast-enabled playback system that is on the same Wi-Fi network as the Cast-enabled display (which is the claimed “at least one given playback device”), the Cast-enabled display is configured to transition from (i) a first mode in which the Cast-enabled display was configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled display is configured to control the at least one other Cast-enabled media player’s playback of the remote playback queue (while the Cast-enabled display itself is no longer configured for playback of the remote playback queue). <i>See, e.g.,</i> https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another].</p> <p>Cast-enabled displays installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music, as illustrated by the following photos:</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>

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Claim 1	Accused Instrumentalities
	<p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p> <div data-bbox="953 375 1436 667" data-label="Image"> </div> <p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p>Representative examples of other evidence demonstrating this functionality are summarized below.</p> <p><u>YouTube, YouTube Music, YouTube TV, & YouTube Kids apps</u></p> <p>In addition to the evidence cited above for limitations 1.7-1.8 and the YouTube, YouTube Music, and YouTube TV apps screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:</p> <ul style="list-style-type: none"> <div data-bbox="533 1138 1871 1338" data-label="Image"> </div>

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 1	Accused Instrumentalities
	<p data-bbox="489 233 1877 302">Representative excerpts of Google’s YouTube app source code²⁸ related to the aforementioned functionality include:</p> <div data-bbox="436 334 1940 1284" style="background-color: black; width: 100%; height: 585px;"></div>

²⁸ [REDACTED]

Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS’ EYES ONLY

Claim 1	Accused Instrumentalities
	<p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><u>Spotify app</u></p> <p>The evidence cited above for limitations 1.7-1.8 and the Spotify app screenshots shown above demonstrates that each Cast-enabled control device installed with the Spotify app is programmed with this functionality.</p> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><u>Cast-Enabled Displays</u></p> <p>In addition to the evidence cited above for limitations 1.7-1.8 and the Cast-enabled display screenshots shown above, the following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <ul style="list-style-type: none"> • https://developers.google.com/cast/docs/web_receiver/core_features (“Stream transfer[.] Preserving session state is the basis of stream transfer, a CAF feature where users can move existing audio and video streams across devices using ... smart displays. Media stops playing on one device (the source) and continues on another (the destination).... The event flow for stream transfer is: <ol style="list-style-type: none"> 1. On the source device: <ol style="list-style-type: none"> a. Media stops playing. b. The Web Receiver application receives a command to save the current media state. c. The Web Receiver application is shut down. 2. On the destination device: <ol style="list-style-type: none"> a. The Web Receiver application is loaded. b. The Web Receiver application receives a command to restore the saved media state. c. Media resumes playing.”

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Claim 1	Accused Instrumentalities
	Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.

Claim 2	Accused Instrumentalities
<p>[2.0] The computing device of claim 1, [2.1] wherein the instruction comprises an instruction for the cloud-based computing system associated with the media service to provide the data identifying the next one or more media items to the given playback device for use in retrieving the at least one media item from the cloud-based computing system associated with the cloud-based media service.</p>	<p>As described above, each Cast-enabled control device is a “computing device” as recited in claim 1. Moreover, each Cast-enabled control device is programmed such that the instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device comprises an instruction for the cloud-based computing system associated with the cloud-based media service to provide the data identifying the next one or more media items to the given Cast-enabled media player for use in retrieving the at least one media item from the cloud-based computing system associated with the cloud-based media service.</p> <p>For instance, a Cast-enabled control device installed with at least some of the Cast-enabled apps discussed above is programmed such that the instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device comprises an instruction for one or more cloud servers associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc. or a third-party service such as Spotify, etc.) that are remote from the Cast-enabled computing device and accessible over the Internet, which may be operated by Google or a third-party service provider, to provide data identifying the next one or more media items to the given Cast-enabled media player for use in retrieving the at least one media item from the one or more cloud servers associated with the cloud-based media service. <i>See, e.g.,</i> https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display]; https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]; https://developers.google.com/cast/docs/web_receiver/queueing; https://developers.google.com/cast/docs/ios_sender/queueing;</p>

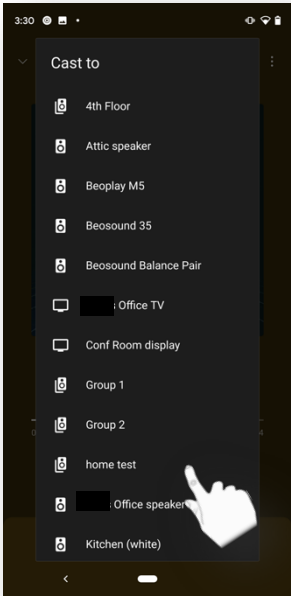
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 2	Accused Instrumentalities
	<p data-bbox="489 237 1339 264">https://developers.google.com/cast/docs/android_sender/queueing.</p> <p data-bbox="489 310 1871 521">For example, as explained above, a Cast-enabled computing device installed with any one of the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed such that, after receiving user input indicating a selection of at least one particular Cast-enabled media player in the Cast-enabled playback system that is to take over playback responsibility, the Cast-enabled computing device performs a variety of functions to transfer playback responsibility from the Cast-enabled computing device to the particular Cast-enabled media player. <i>See</i> claim limitation 1.7.</p> <div data-bbox="489 488 1881 894" style="background-color: black; width: 100%; height: 250px; margin: 10px 0;"></div> <p data-bbox="489 930 1860 1027">Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p>
Claim 4	Accused Instrumentalities
<p data-bbox="201 1118 436 1403">[4.0] The computing device of claim 1, [4.1] wherein the representation of the one or more playback devices comprises at least</p>	<p data-bbox="489 1118 1881 1403">As described above, each Cast-enabled control device is a “computing device,” as recited in claim 1. Moreover, each Cast-enabled control device is programmed with the capability to perform the aforementioned functions where (i) the representation of the one or more Cast-enabled media players comprises at least one selectable indicator for a group of Cast-enabled media players that includes the given Cast-enabled media player and one or more other Cast-enabled media players that are to be configured for synchronous playback of the remote playback queue and (ii) the user input indicating the selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players comprises user input indicating a selection of the group of Cast-enabled media players.</p>

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Claim 4	Accused Instrumentalities
<p>one selectable indicator for a group of playback devices that includes the given playback device and one or more other playback devices that are to be configured for synchronous playback of the remote playback queue, and wherein the user input indicating the selection of at least one given playback device from the one or more playback devices comprises user input indicating a selection of the group of playback devices.</p>	<p>For instance, each Cast-enabled control device is programmed with the capability to perform the aforementioned functions where (i) the representation of the one or more Cast-enabled media players comprises a selectable indicator for a “speaker group” that includes the given Cast-enabled media player and one or more other Cast-enabled media players that are to be configured for synchronous playback of the remote playback queue when the “speaker group” is launched, which amounts to the claimed “group of playback devices . . . that are to be configured for synchronous playback of the remote playback queue”, and (ii) the user input indicating the selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players comprises user input indicating a selection of the “speaker group.” <i>See, e.g.,</i> https://support.google.com/googlenest/answer/7174267?hl=en-GB&co=GENIE.Platform=Android (“Group any combination of Google Nest or Google Home speakers and displays and Chromecast devices together for synchronous music throughout the home.”); https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab].</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube Music app, as illustrated by the following screenshots:</p>

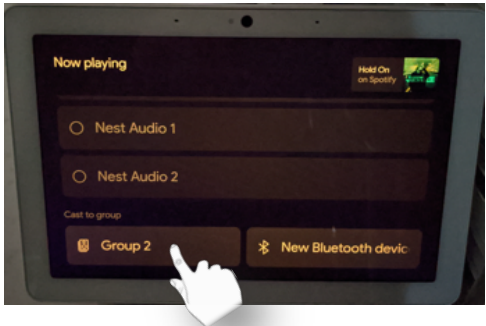
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Claim 4	Accused Instrumentalities
	<div data-bbox="1031 264 1320 855">A screenshot of a mobile application's 'Cast to' menu. The menu is displayed on a dark background and lists several options, each preceded by a small icon. The options are: '4th Floor', 'Attic speaker', 'Beoplay M5', 'Beosound 35', 'Beosound Balance Pair', 'Office TV', 'Conf Room display', 'Group 1', 'Group 2', 'home test', 'Office speaker', and 'Kitchen (white)'. A white hand icon is pointing at the 'Office speaker' option. The top of the screen shows the time '3:30' and various status icons.</div> <p data-bbox="491 927 1856 1029">Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshot:</p>

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Claim 4	Accused Instrumentalities
	<div data-bbox="1050 259 1291 763" data-label="Image"> </div> <p>Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.,</i> https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p> <p>Cast-enabled displays installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube Music app, as illustrated by the following photos:</p> <div data-bbox="955 1084 1438 1421" data-label="Image"> </div>

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Claim 4	Accused Instrumentalities
	<p>Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photo:</p>  <p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p>Sonos further incorporates by reference Google's response to Sonos's Fact Discovery Interrogatory No. 14, including any of Google's documents or source code cited therein. <i>See</i> Google LLC's First Objections and Responses to Plaintiff Sonos, Inc.'s First Set of Fact Discovery Interrogatories.</p>
Claim 7	Accused Instrumentalities
<p>[7.0] The computing device of claim 1, wherein:</p> <p>[7.1] operating in the first mode further involves providing a control interface comprising one or more selectable</p>	<p>As described above, each Cast-enabled control device is a "computing device," as recited in claim 1. Moreover, each Cast-enabled control device is programmed such that operating in the first mode further involves providing a control interface comprising one or more selectable control icons that are configured to control playback of the remote playback queue by the Cast-enabled control device.</p> <p>For instance, each Cast-enabled control device is programmed such that operating in a mode in which the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud server associated with a cloud-based media service (e.g., a Google service such as YouTube, YouTube Music, YouTube TV, YouTube Kids, etc. or a third-party service such as Spotify, etc.) that is remote from the Cast-enabled computing device and accessible over the Internet involves providing a control interface comprising</p>

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Claim 7	Accused Instrumentalities
control icons that are configured to control playback of the remote playback queue by the computing device;	<p>one or more selectable control icons (e.g., a Pause icon, a Skip icon, etc.) that are configured to control playback of the remote playback queue by the Cast-enabled control device. <i>See, e.g.,</i> https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display]; https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com]; https://support.google.com/googlenest/answer/9165738?hl=en [Google Nest display with YouTube built-in]; https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music; https://store.google.com/us/product/google_nest_hub_max?hl=en-US; <i>see also</i> claim limitation 1.4 (illustrating examples of this functionality from a Cast-enabled computing device and a Cast-enabled display that are each running at least the YouTube, YouTube Music, YouTube TV, and/or Spotify apps).</p> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 15, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p>
[7.2] transitioning from the first mode to the second mode further involves modifying the control interface such that the one or more selectable control icons are configured to control playback of the remote playback queue by the at least one playback device instead of the computing device.	<p>As described above, each Cast-enabled control device is a “computing device,” as recited in claim 1. Moreover, each Cast-enabled control device is programmed such that transitioning from the first mode to the second mode further involves modifying the control interface such that the one or more selectable control icons (e.g., the Pause icon, the Skip icon, etc.) are configured to control playback of the remote playback queue by the at least one Cast-enabled media player instead of the Cast-enabled control device.</p> <p>For instance, each Cast-enabled control device is programmed such that transitioning from the first mode in which the Cast-enabled control device was configured for playback of the remote playback queue to the second mode in which the Cast-enabled control device is configured to control the at least one Cast-enabled media player’s playback of the remote playback queue (while the Cast-enabled control device itself is no longer configured for playback of the remote playback queue) further involves modifying the control interface such that the one or more selectable control icons (e.g., a Pause icon, a Skip icon, etc.) are configured to control playback of the remote playback queue by the at least one Cast-enabled media player instead of the Cast-enabled control device. <i>See, e.g.,</i> https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] (“You can even use your mobile device or tablet as a remote and control everything from playback to volume.”); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to</p>

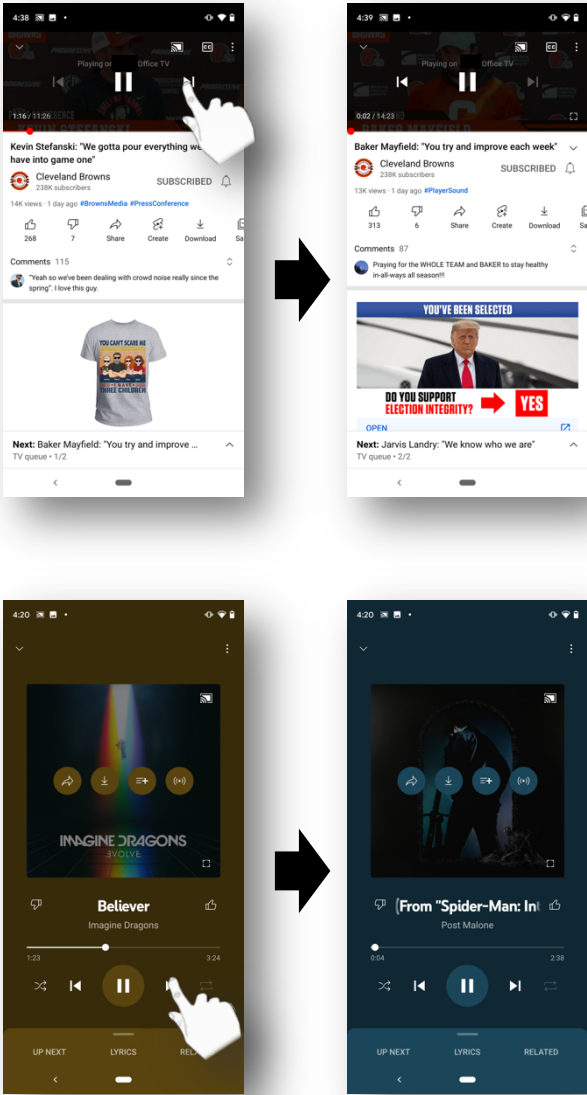
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Claim 7	Accused Instrumentalities
	<p>speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com] (“To play, pause or navigate with the scrollbar, use your device as you normally would to control playback.”);</p> <p>https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab]; <i>see also</i> claim limitation 1.9 (illustrating examples of this functionality from a Cast-enabled computing device and a Cast-enabled display that are each running at least the YouTube, YouTube Music, YouTube TV, and/or Spotify apps).</p> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p>
Claim 8	Accused Instrumentalities
<p>[8.0] The computing device of claim 7, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the computing device to perform functions comprising: [8.1]</p>	<p>As described above, each Cast-enabled control device is a “computing device,” as recited in claim 7. Moreover, each Cast-enabled control device further comprises program instructions stored on the Cast-enabled control device’s non-transitory computer-readable medium that, when executed by the Cast-enabled control device’s processor, cause the Cast-enabled control device to, after transitioning to the second mode, receive user input indicating a selection of a given control icon of the one or more selectable control icons, wherein the given control icon corresponds to a given transport control operation, and based on receiving the user input indicating the selection of the given control icon, cause the corresponding transport control operation to be executed by the given Cast-enabled media player.</p> <p>For instance, each Cast-enabled control device is programmed with the capability to, after transitioning to the second mode in which the Cast-enabled control device is configured to control the at least one Cast-enabled media player’s playback of the remote playback queue (while the Cast-enabled control device itself is no longer configured for playback of the remote playback queue), receive user input indicating a selection of a given control icon (e.g., a Play/Pause icon, a Skip icon, etc.) of the one or more selectable control icons, where the given control icon corresponds to a given transport control operation (e.g., play/pause, skip, etc.), and based on receiving the user input indicating the selection of the given control icon, cause the corresponding transport control operation (e.g., play/pause, skip, etc.) to be executed by the given Cast-</p>

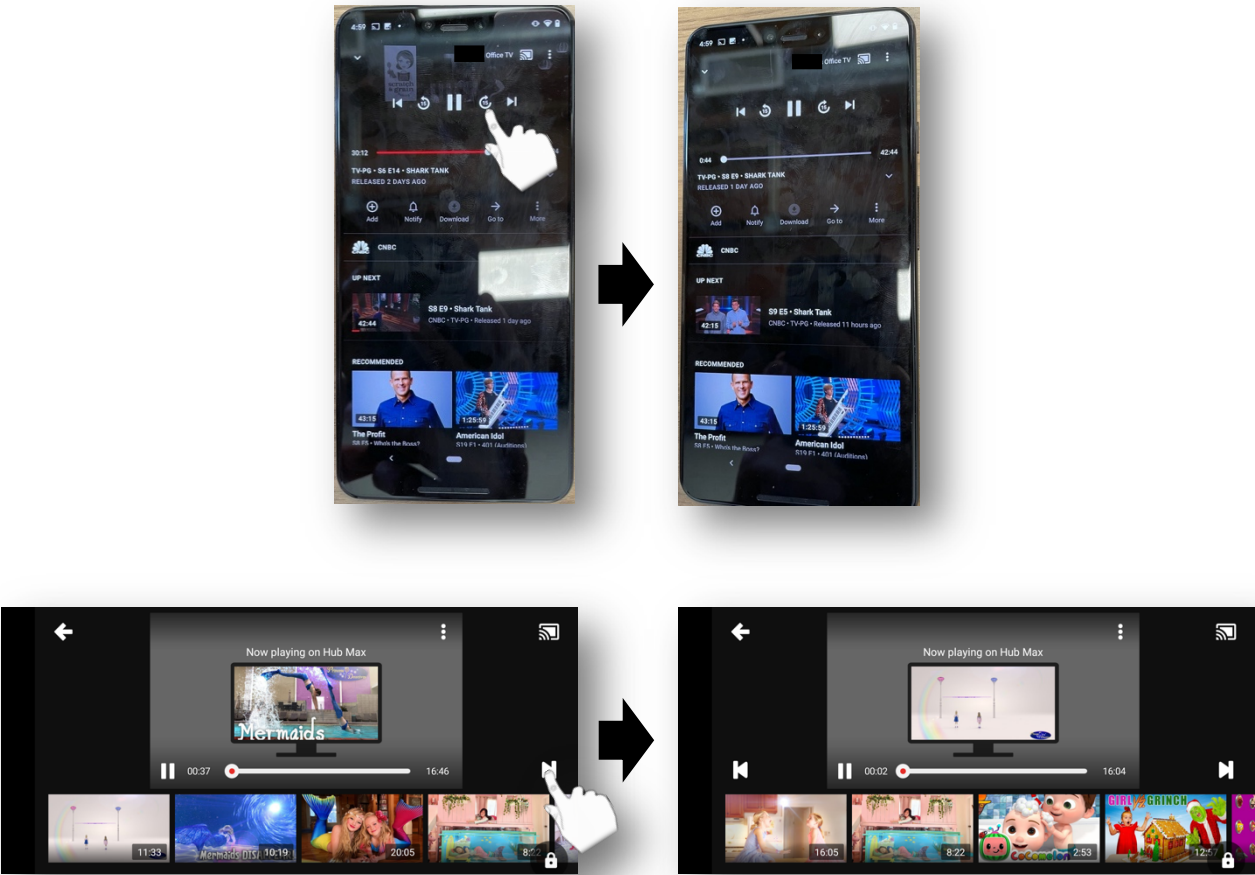
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Claim 8	Accused Instrumentalities
<p>after transitioning to the second mode, receiving user input indicating a selection of a given control icon of the one or more selectable control icons, wherein the given control icon corresponds to a given transport control operation; and [8.2] based on receiving the user input indicating the selection of the given control icon, causing the corresponding transport control operation to be executed by the given playback device.</p>	<p>enabled media player. <i>See, e.g.,</i> https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] (“You can even use your mobile device or tablet as a remote and control everything from playback to volume.”); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com] (“To play, pause or navigate with the scrollbar, use your device as you normally would to control playback.”); https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab]; https://developer.android.com/reference/android/media/session/MediaController.TransportControls.</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids apps, as illustrated by the following screenshots:</p>

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Claim 8	Accused Instrumentalities
	


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Claim 8	Accused Instrumentalities
	 <p>Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshots:</p>

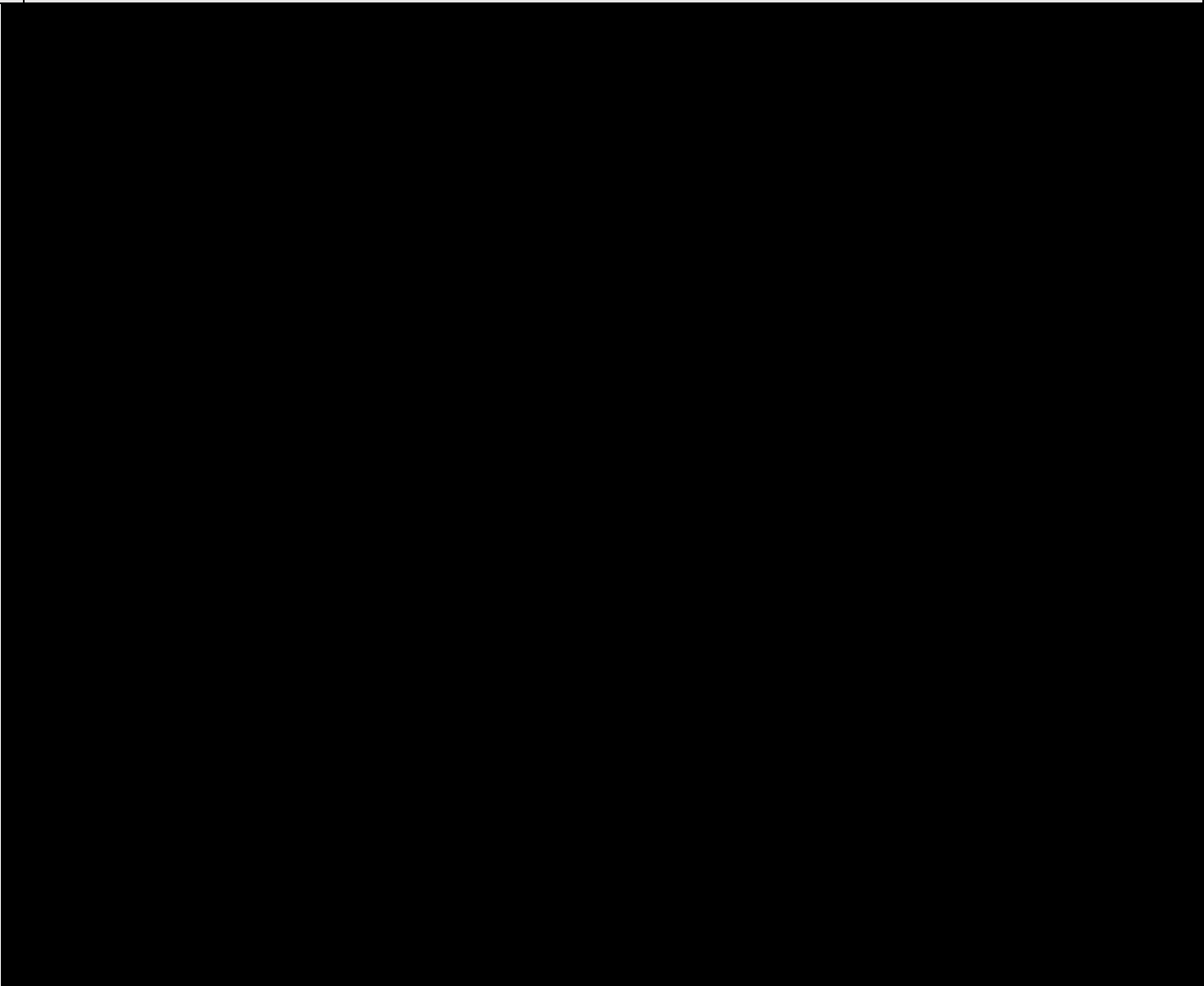
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Claim 8	Accused Instrumentalities
	<div data-bbox="884 261 1465 781"> </div> <p data-bbox="491 850 1885 959">Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. <i>See, e.g.,</i> https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p> <p data-bbox="491 997 1885 1138">Cast-enabled displays installed with various of Google's own Cast-enabled apps, including but not limited to the YouTube and YouTube Music apps, as well as various third-party Cast-enabled apps, including but not limited to the Spotify app, are programmed to perform this functionality, as illustrated by the following exemplary screenshots:</p>

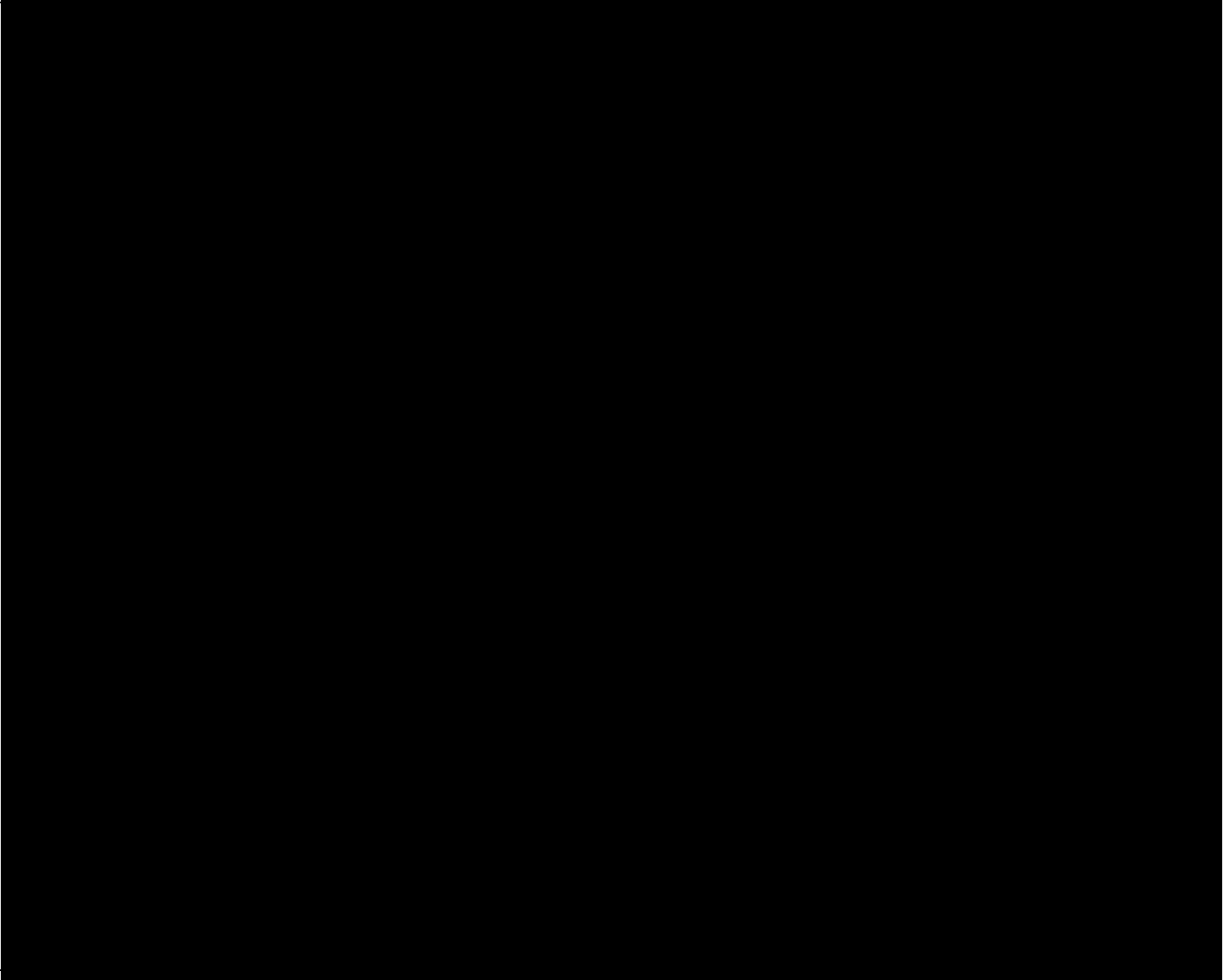
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Claim 8	Accused Instrumentalities
	 <p>Representative examples of other evidence demonstrating this functionality are summarized below.</p> <p><u>YouTube, YouTube Music, YouTube TV, & YouTube Kids apps</u></p> <p>Representative excerpts of Google's YouTube app source code³⁰ related to the aforementioned functionality include:</p> <div style="background-color: black; height: 40px; width: 100%;"></div>

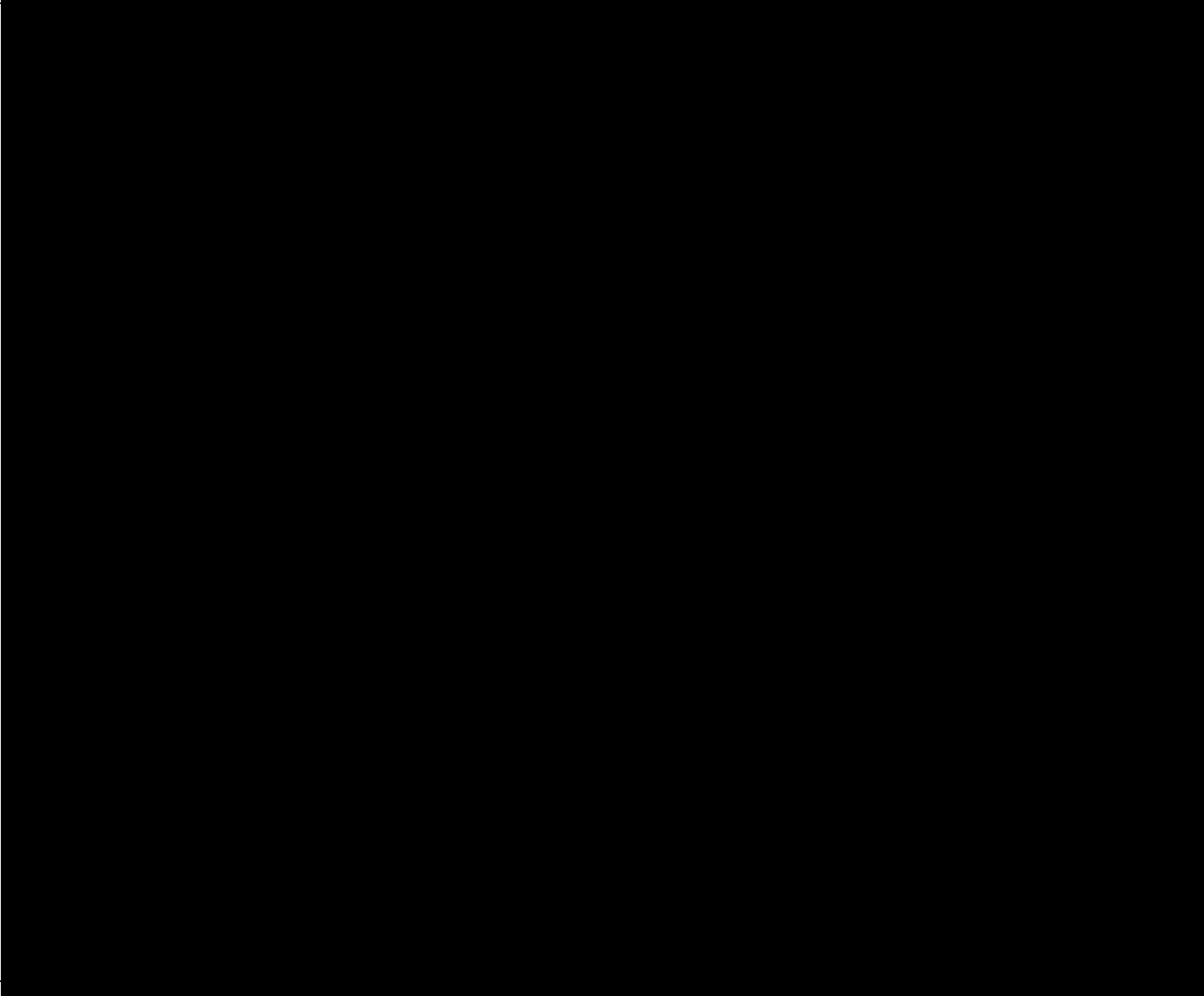
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Claim 8	Accused Instrumentalities
	

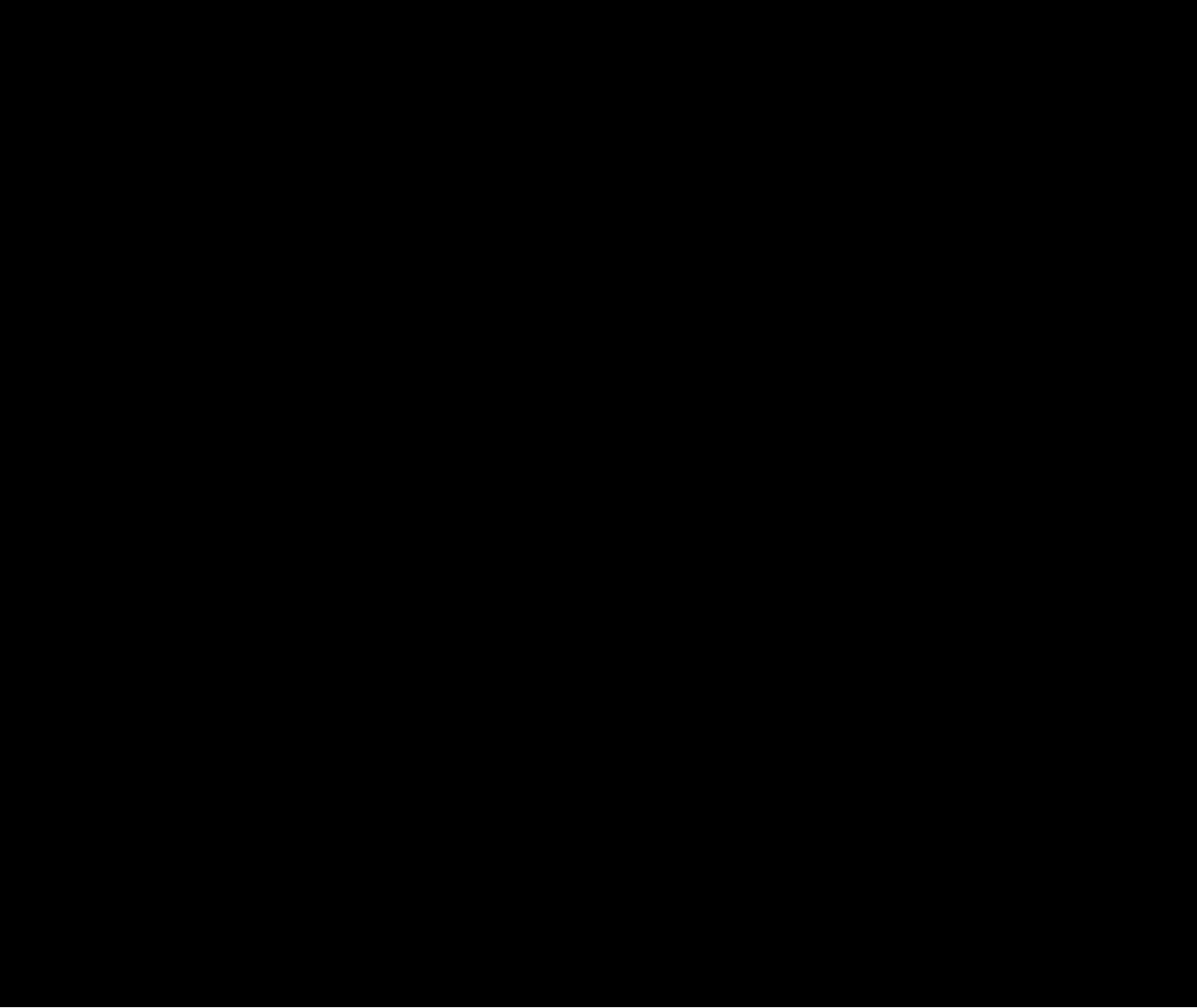
Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 8	Accused Instrumentalities
	

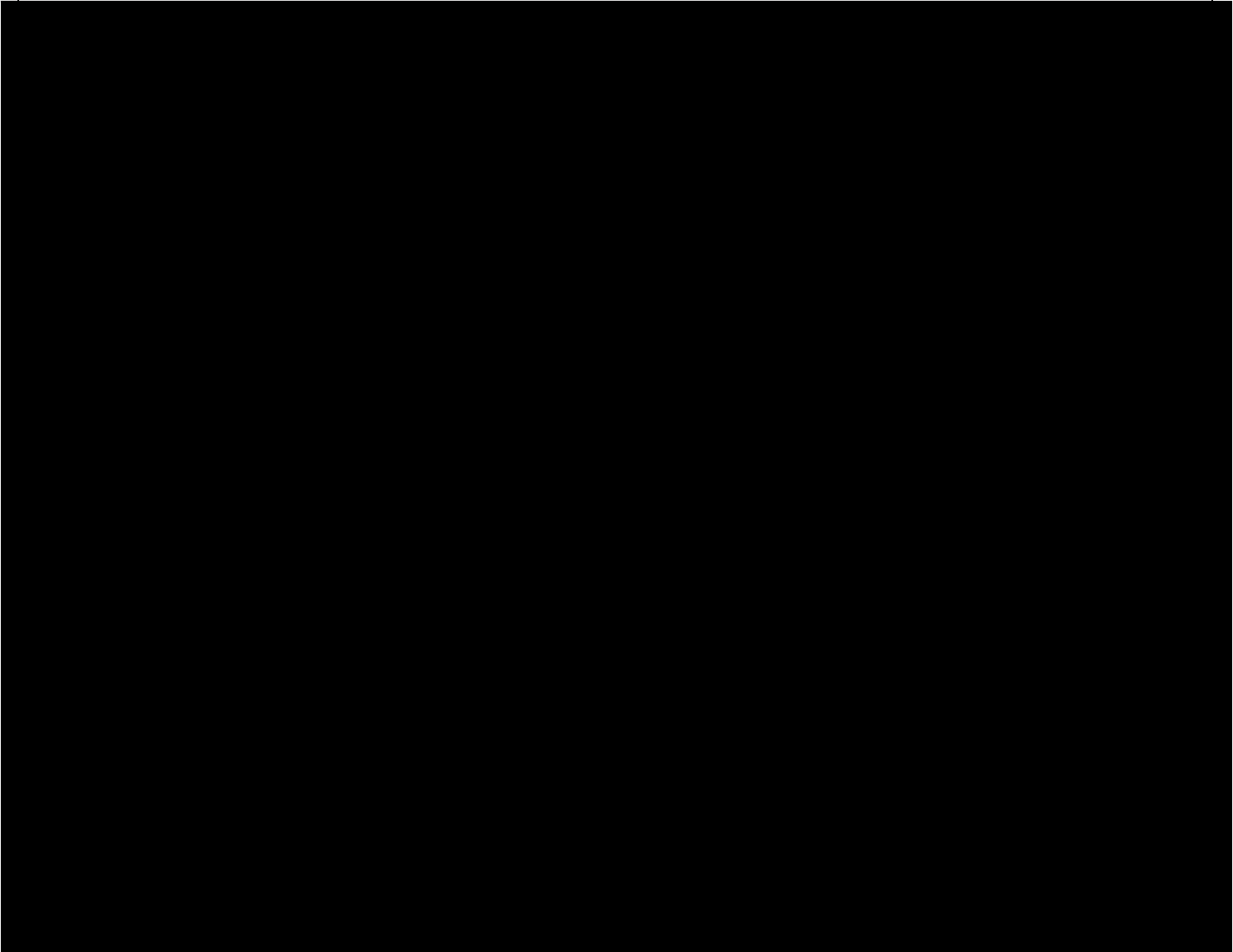
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Claim 8	Accused Instrumentalities
	

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Claim 8	
	

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Claim 8	Accused Instrumentalities
	<div></div> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><u>Cast-Enabled Displays</u></p> <p>Representative excerpts of Google’s Cast-enabled display source code³⁴ related to the aforementioned functionality include:</p> <div></div>




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


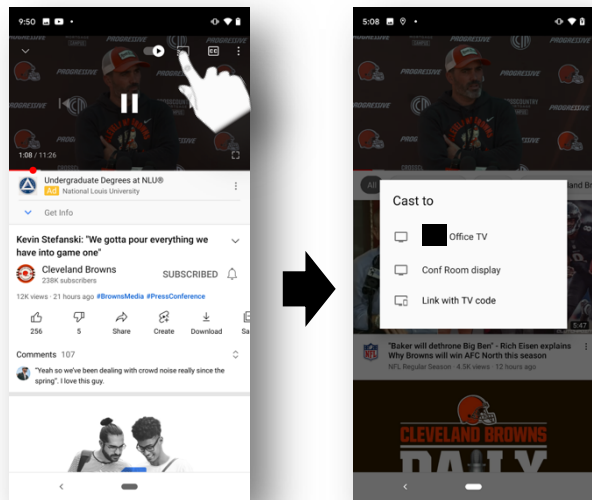
Claim 8	Accused Instrumentalities
	<div data-bbox="455 224 1936 1203" style="background-color: black; width: 100%; height: 603px;"></div> <div data-bbox="489 1203 1898 1323"><p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p></div>

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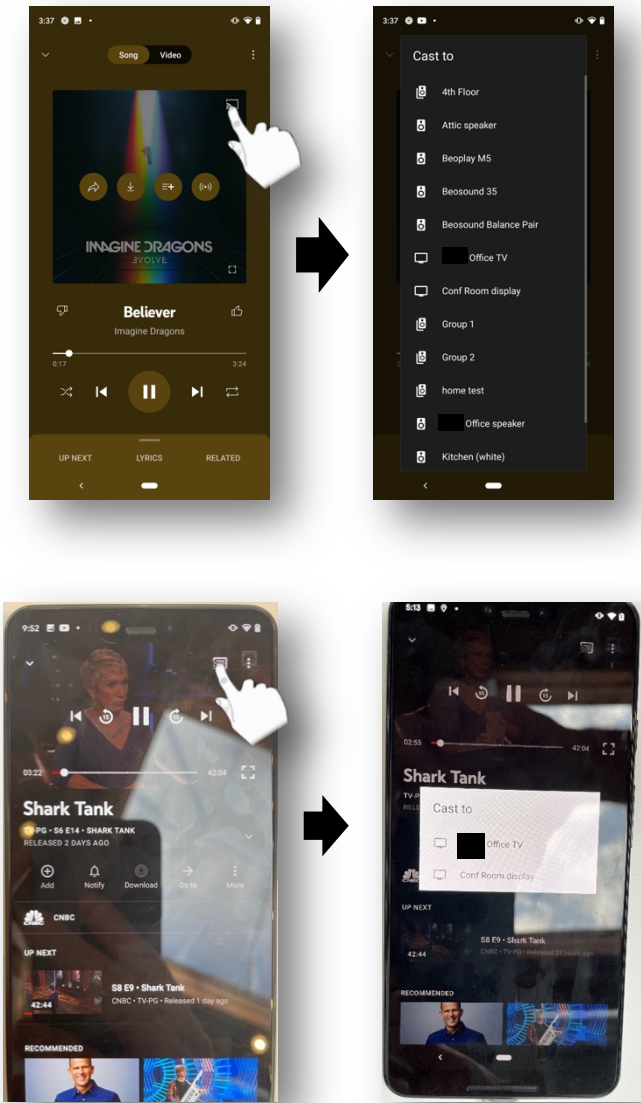
Claim 9	Accused Instrumentalities
[9.0] The computing device of claim 8, [9.1] wherein the transport control operation comprises one of a play operation, a pause operation, a skip forward operation, or a skip back operation.	As described above, each Cast-enabled control device is a “computing device,” as recited in claim 8. Moreover, each Cast-enabled control device is programmed with the capability to perform the aforementioned functions where the transport control operation comprises one of a play operation, a pause operation, a skip forward operation, or a skip back operation. <i>See</i> claim limitations 8.1-8.2.

Claim 11	Accused Instrumentalities
[11.0] The computing device of claim 1, wherein displaying the representation of the one or more playback devices comprises: [11.1] displaying the representation of the one or more playback devices in response to receiving a selection of a displayed icon indicating that	<p>As described above, each Cast-enabled control device is a “computing device,” as recited in claim 1. Moreover, each Cast-enabled control device is programmed such that displaying the representation of the one or more Cast-enabled media players comprises displaying the representation of the one or more Cast-enabled media players in response to receiving a selection of a displayed icon indicating that playback responsibility for the remote playback queue can be transferred.</p> <p>For instance, each Cast-enabled control device is programmed such that displaying a list of available devices for transferring playback that includes one or more Cast-enabled media players in a Cast-enabled playback system comprises displaying the list of available devices for transferring playback that includes one or more Cast-enabled media players in the Cast-enabled playback system in response to receiving a selection of a displayed icon (e.g., a “Cast button”) indicating that playback responsibility for the remote playback queue can be transferred. <i>See, e.g.,</i> https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] (“Tap the Cast button  . . . Tap the speaker or display for which you’d like to cast.”); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] (“2. In the top right corner, tap the Cast button  3. Choose your speaker.”); https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com] (“Tap the Cast button  . . . Tap the Chromecast device to which you want to cast.”);</p>

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Claim 11	Accused Instrumentalities
<p>playback responsibility for the remote playback queue can be transferred.</p>	<p>https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast] (“Tap Cast . This is found at the top of the app Home screen.  Choose the device you want to cast to.”);</p> <p>https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another] (“At the bottom-left corner of the screen, tap Devices  to see the list of available devices and speaker groups. . . . Select the device for which you want to move your media.”);</p> <p>https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab].</p> <p>Cast-enabled computing devices installed with various of Google’s own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube, YouTube Music, YouTube TV, and YouTube Kids, as illustrated by the following screenshots:</p> <div data-bbox="877 699 1465 1198">  </div>

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Claim 11	Accused Instrumentalities
	 <p>The diagram illustrates two examples of music and video playback on mobile devices, showing a 'Cast to' menu overlay. The top example shows a music player interface for 'Believer' by Imagine Dragons. A hand icon indicates a tap on the cast icon, leading to a 'Cast to' menu listing various devices including '4th Floor', 'Attic speaker', 'Beoplay M5', 'Beosound 35', 'Beosound Balance Pair', 'Office TV', 'Conf Room display', 'Group 1', 'Group 2', 'home test', 'Office speaker', and 'Kitchen (white)'. The bottom example shows a video player interface for 'Shark Tank'. A hand icon indicates a tap on the cast icon, leading to a 'Cast to' menu listing 'Office TV' and 'Conf Room display'.</p>

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Claim 11	Accused Instrumentalities
	<div data-bbox="550 261 1801 529"> </div> <p data-bbox="487 638 1856 708"><i>See also, e.g.,</i> GOOG-SONOSWDTX-00041499 [REDACTED] at 500-501.</p> <p data-bbox="487 748 1856 852">Likewise, Cast-enabled computing devices installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following screenshots:</p>

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Claim 11	Accused Instrumentalities
	<div data-bbox="882 259 1459 812" data-label="Image"> </div> <p data-bbox="489 852 1885 966">Various other Cast-enabled apps available for installation on Cast-enabled computing devices provide similar functionality. See, e.g., https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers]; https://www.google.com/chromecast/built-in/apps/.</p> <p data-bbox="489 998 1885 1105">Cast-enabled displays installed with various of Google's own Cast-enabled apps are programmed to perform this functionality, including but not limited to the YouTube and YouTube Music, as illustrated by the following photos:</p>

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Claim 11	Accused Instrumentalities
	<div data-bbox="667 232 1150 560"> </div> <div data-bbox="1171 394 1224 459">➔</div> <div data-bbox="1241 232 1724 560"> </div> <div data-bbox="667 605 1150 933"> </div> <div data-bbox="1171 743 1224 808">➔</div> <div data-bbox="1241 597 1724 933"> </div> <p data-bbox="489 971 1896 1084">Additionally, Cast-enabled displays installed with various third-party Cast-enabled apps are also programmed to perform this functionality, including but not limited to the Spotify app, as illustrated by the following photos:</p> <div data-bbox="688 1117 1171 1399"> </div> <div data-bbox="1182 1230 1234 1295">➔</div> <div data-bbox="1241 1117 1703 1399"> </div>

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Claim 11	Accused Instrumentalities
	<p>Various other Cast-enabled apps available for installation on Cast-enabled displays provide similar functionality.</p> <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p>
Claim 12	Accused Instrumentalities
<p>[12.0] A non-transitory computer-readable medium having stored thereon program instructions that, when executed by at least one processor, cause a computing device to perform functions comprising:</p>	<p>Google’s “Cast” technology enables an “Android, iOS, or Web app to direct its streaming video and audio to a TV or sound system,” where the app “becomes the remote control to play, pause, seek, rewind, stop, and otherwise control the media.” https://developers.google.com/cast. In Google’s “Cast” framework, there are two core categories of devices: (1) “sender” devices, which are computing devices installed with a Cast-enabled Android, iOS, Chrome, or browser-based app accessed via either an app store or Chromecast-enabled site URL³⁶ (including youtube.com, music.youtube.com, tv.youtube.com, and spotify.com, and (2) “receiver” devices, which are Cast-enabled media players such as an audio or video playback device. <i>See, e.g.,</i> https://developers.google.com/cast/docs/developers; https://developers.google.com/cast/glossary; https://developers.google.com/cast/docs/ux_guidelines.</p> <p>There are many different Cast-enabled Android, iOS, Chrome, or browser-based apps that allow a user to transfer playback of streaming media content from the user’s smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app. This includes Google’s own Cast-enabled apps, such as the YouTube app, YouTube Music app, the YouTube TV app, and the YouTube Kids app, as well as a host of different third-party Cast-enabled apps, such as the Spotify app. <i>See, e.g.,</i> https://support.google.com/chromecast/answer/6279384?hl=en; https://www.google.com/chromecast/built-in/apps/. These Cast-enabled apps can be installed and run on any smartphone, tablet, or computer device that supports Android, iOS, Chrome, or browser-based apps, including Google’s own “Pixel” smartphone, tablet, and computer devices (<i>e.g.,</i> the Pixel, Pixel XL, Pixel 2, Pixel 2 XL, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, Pixel 4, Pixel 4 XL, Pixel 4a, Pixel 4a (5G), Pixel 5, Pixel 5a (5G), Pixel 6 phones, the Pixel Slate tablet, and the Pixelbook and Pixelbook Go laptops) as well as</p>

³⁶ *See, e.g.,* <https://support.google.com/chromecast/answer/3265953?hl=en>.

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Claim 12	Accused Instrumentalities
	<p>many third-party smartphone, tablet, or computer device. <i>See, e.g.,</i> https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs. For purposes of this chart, any smartphone, tablet, or computer device installed with a Cast-enabled Android, iOS, Chrome, or browser-based app (e.g., accessed via an app store or Chromecast-enabled site URL) that allows a user to transfer playback of streaming media content from the smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app will be referred to as a “Cast-enabled computing device.”</p> <p>As set out in the Supplemental Infringement Contentions, Sonos has endeavored to list the possible third-party smartphone, tablet, and computer devices that may have been used to download and install one or more accused Cast-enabled apps between May 2018 to present. <i>See</i> Appx. 1. Each of these third-party smartphone, tablet, and computer devices, when installed with at least one Cast-enabled app, meets all elements of the claims as explained in more detail herein. As set forth below, Sonos cites representative examples of Google smartphone, tablet, and computer devices that comprises a tangible, non-transitory computer-readable storage medium that, when installed with a Cast-enabled app, includes executable instructions that when executed by a processor causes the device to carry out the recited functions, but notes that this tangible, non-transitory computer-readable storage medium has become ubiquitous among all smartphone, tablet, and computer devices. Each possible third-party smartphone, tablet, and computer device listed in Appendix 1 contains this aspect and thus meets this element.</p> <p>There are also many different Cast-enabled media players to which playback of streaming media content can be transferred from a Cast-enabled computing device. This includes Google’s own Cast-enabled media players, such as the Home Mini, Nest Mini, Home, Home Max, Home Hub, Nest Hub, Nest Hub Max, Nest Wifi Point, Chromecast, Chromecast Audio, Chromecast Ultra, Chromecast with Google TV, and Nest Audio media players, as well as various other third-party media players with built-in Cast functionality. <i>See, e.g.,</i> https://store.google.com/us/product/google_home_max?hl=en-US; https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US; https://www.google.com/chromecast/built-in/audio/.</p>

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Claim 12	Accused Instrumentalities
	<p>Certain of these Cast-enabled media players also include a display screen and firmware that enables the Cast-enabled media players to additionally function as a control device for other Cast-enabled media players. This sub-category of Cast-enabled media players, which will be referred to herein as “Cast-enabled displays,” includes Google’s Home Hub, Nest Hub, and Nest Hub Max media players. <i>See, e.g.,</i> https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music; https://store.google.com/us/product/google_nest_hub_max?hl=en-US; https://support.google.com/googlenest/answer/9165738?hl=en. Similar to the Cast-enabled computing devices, these Cast-enabled displays have Cast-enabled software (e.g., firmware and/or Cast-enabled apps) that allows a user to transfer playback of streaming media content from the Cast-enabled display to another Cast-enabled media player and then control that other Cast-enabled media player’s playback using the Cast-enabled display’s user interface. For purposes of this chart, Cast-enabled computing devices and Cast-enabled displays may be referred to collectively as “Cast-enabled control devices.”</p> <p>Google also hosts backend software on Cloud-based infrastructure owned and/or operated by Google (sometimes referred to as Google Cloud Platform or “GCP” for short) that facilitates the aforementioned Cast functionality for transferring playback of streaming media content from a Cast-enabled control device to a Cast-enabled media player and/or controlling the Cast-enabled media player’s playback.</p> <p>As described in further detail below, each Cast-enabled control device is a “computing device” that comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by the Cast-enabled control device’s processor, cause that Cast-enabled control device to perform the functions recited in claim 12. Further, each server that hosts at least one of the aforementioned Cast-enabled apps for download onto Cast-enabled computing devices, which is referred to herein as a “Cast-enabled app download server,” comprises a tangible, non-transitory computer-readable storage medium having program instructions stored thereon that, when executed by a Cast-enabled control device’s processor, cause that Cast-enabled control device to perform the functions recited in claim 12. Further yet, because each Cast-enabled media player is a data network device (<i>i.e.</i>, a device that is configured to connect to and communicate over a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other) and is configured to process and output audio, each Cast-enabled media player comprises a “playback device” as recited in claim 12. <i>See, e.g.,</i> Pl.’s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 4-6, 23-26, Exs. 24-25; Pl.’s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 2-3, 10-12, Exs. 26-27; SONOS-SVG2-00018184 - SONOS-SVG2-00018236 [ITC Order No. 20] at p. 15;</p>

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Claim 12	Accused Instrumentalities
	https://support.google.com/googlenest/answer/7072284?hl=en ; https://support.google.com/chromecast/answer/3046409?hl=en ; https://store.google.com/us/product/nest_wifi_specs?hl=en-US .
[12.1] operating in a first mode in which the computing device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service;	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to operate in a first mode in which the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service. <i>See</i> claim limitation 1.4.
[12.2] while operating in the first mode, displaying a representation of one or more playback devices in a media playback system that are each i) communicatively coupled to the computing device over a data network and ii) available to accept playback responsibility for	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, while operating in the first mode, display a representation of one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled control device over a data network and (ii) available to accept playback responsibility for the remote playback queue. <i>See</i> claim limitation 1.5.

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Claim 12	Accused Instrumentalities
the remote playback queue;	
[12.3] while displaying the representation of the one or more playback devices, receiving user input indicating a selection of at least one given playback device from the one or more playback devices;	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, while displaying the representation of the one or more Cast-enabled media players, receive user input indicating a selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players. <i>See</i> claim limitation 1.6.
[12.4] based on receiving the user input, transmitting an instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device, wherein the instruction configures the at least one given playback device to (i) communicate	Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device's processor, cause the Cast-enabled control device to, based on receiving the user input, transmit an instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device, wherein the instruction configures the at least one given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item. <i>See</i> claim limitation 1.7.

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Claim 12	Accused Instrumentalities
<p>with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item</p>	
<p>[12.5] detecting an indication that playback responsibility for the remote playback queue has been successfully transferred from the computing device to the at least one given playback device;</p>	<p>Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device’s processor, cause the Cast-enabled control device to detect an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled control device to the at least one given Cast-enabled media player. <i>See</i> claim limitation 1.8.</p>

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Claim 12	Accused Instrumentalities
<p>[12.6] and after detecting the indication, transitioning from i) the first mode in which the computing device is configured for playback of the remote playback queue to ii) a second mode in which the computing device is configured to control the at least one given playback device's playback of the remote playback queue and the computing device is no longer configured for playback of the remote playback queue.</p>	<p>Each Cast-enabled control device and each Cast-enabled app download server comprises a non-transitory computer-readable medium having program instructions stored thereon that, when executed by a Cast-enabled control device’s processor, cause the Cast-enabled control device to, after detecting the indication, transition from (i) the first mode in which the Cast-enabled control device is configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled control device is configured to control the at least one given Cast-enabled media player’s playback of the remote playback queue and the Cast-enabled control device is no longer configured for playback of the remote playback queue. <i>See</i> claim limitation 1.9.</p>
Claim 13	Accused Instrumentalities
<p>[13.0] The non-transitory computer-readable medium of claim</p>	<p>As described above, each Cast-enabled control device and each Cast-enabled app download server comprises a “non-transitory computer-readable medium,” as recited in claim 12. Moreover, in accordance with the program instructions, each Cast-enabled control device is programmed such that the instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue</p>

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Claim 13	Accused Instrumentalities
12, [13.1] wherein the instruction comprises an instruction for the cloud-based computing system associated with the cloud-based media service to provide the data identifying the next one or more media items to the given playback device for use in obtaining the at least one media item from the cloud-based computing system associated with the cloud-based media service.	from the Cast-enabled control device comprises an instruction for the cloud-based computing system associated with the cloud-based media service to provide the data identifying the next one or more media items to the given Cast-enabled media player for use in retrieving the at least one media item from the cloud-based computing system associated with the cloud-based media service. <i>See</i> claim limitation 2.1.

Claim 15	Accused Instrumentalities
[15.0] A method carried out by a computing device, the method comprising:	Google’s “Cast” technology enables an “Android, iOS, or Web app to direct its streaming video and audio to a TV or sound system,” where the app “becomes the remote control to play, pause, seek, rewind, stop, and otherwise control the media.” https://developers.google.com/cast . In Google’s “Cast” framework, there are two core categories of devices: (1) “sender” devices, which are computing devices installed with a Cast-enabled Android, iOS, Chrome, or browser-based app accessed via either an app store or Chromecast-enabled site URL ³⁷ (including youtube.com, music.youtube.com, tv.youtube.com, and spotify.com), and (2)

³⁷ *See, e.g.*, <https://support.google.com/chromecast/answer/3265953?hl=en>.

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Claim 15	Accused Instrumentalities
	<p>“receiver” devices, which are Cast-enabled media players such as an audio or video playback device. <i>See, e.g.,</i> https://developers.google.com/cast/docs/developers; https://developers.google.com/cast/glossary; https://developers.google.com/cast/docs/ux_guidelines.</p> <p>There are many different Cast-enabled Android, iOS, Chrome, or browser-based apps that allow a user to transfer playback of streaming media content from the user’s smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app. This includes Google’s own Cast-enabled apps, such as the YouTube app, YouTube Music app, the YouTube TV app, and the YouTube Kids app, as well as a host of different third-party Cast-enabled apps, such as the Spotify app. <i>See, e.g.,</i> https://support.google.com/chromecast/answer/6279384?hl=en; https://www.google.com/chromecast/built-in/apps/. These Cast-enabled apps can be installed and run on any smartphone, tablet, or computer device that supports Android, iOS, Chrome, or browser-based apps, including Google’s own “Pixel” smartphone, tablet, and computer devices (<i>e.g.,</i> the Pixel, Pixel XL, Pixel 2, Pixel 2 XL, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, Pixel 4, Pixel 4 XL, Pixel 4a, Pixel 4a (5G), Pixel 5, Pixel 5a (5G), Pixel 6 phones, the Pixel Slate tablet, and the Pixelbook and Pixelbook Go laptops) as well as many third-party smartphone, tablet, or computer device. <i>See, e.g.,</i> https://store.google.com/us/magazine/compare_pixel; https://store.google.com/us/product/google_pixelbook_specs; https://store.google.com/us/product/pixel_slate_specs. For purposes of this chart, any smartphone, tablet, or computer device installed with a Cast-enabled Android, iOS, Chrome, or browser-based app (<i>e.g.,</i> accessed via an app store or Chromecast-enabled site URL) that allows a user to transfer playback of streaming media content from the smartphone, tablet, or computer device to a Cast-enabled media player and then control the Cast-enabled media player’s playback using the Cast-enabled app will be referred to as a “Cast-enabled computing device.”</p> <p>As set out in the Supplemental Infringement Contentions, Sonos has endeavored to list the possible third-party smartphone, tablet, and computer devices that may have been used to download and install one or more accused Cast-enabled apps between May 2018 to present. <i>See</i> Appx. 1. Each of these third-party smartphone, tablet, and computer devices, when installed with at least one Cast-enabled app, meets all elements of the claims as explained in more detail herein. As set forth below, Sonos cites representative examples of Google smartphone, tablet, and computer devices that were capable of being installed with a</p>

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Claim 15	Accused Instrumentalities
	<p>Cast-enabled app but notes that each possible third-party smartphone, tablet, and computer device listed in Appendix 1 was capable of being installed with a Cast-enabled app.</p> <p>There are also many different Cast-enabled media players to which playback of streaming media content can be transferred from a Cast-enabled computing device. This includes Google’s own Cast-enabled media players, such as the Home Mini, Nest Mini, Home, Home Max, Home Hub, Nest Hub, Nest Hub Max, Nest Wifi Point, Chromecast, Chromecast Audio, Chromecast Ultra, Chromecast with Google TV, and Nest Audio media players, as well as various other third-party media players with built-in Cast functionality. <i>See, e.g.,</i> https://store.google.com/us/product/google_home_max?hl=en-US; https://store.google.com/us/product/chromecast_google_tv_compare?hl=en-US; https://www.google.com/chromecast/built-in/audio/.</p> <p>Certain of these Cast-enabled media players also include a display screen and firmware that enables the Cast-enabled media players to additionally function as a control device for other Cast-enabled media players. This sub-category of Cast-enabled media players, which will be referred to herein as “Cast-enabled displays,” includes Google’s Home Hub, Nest Hub, and Nest Hub Max media players. <i>See, e.g.,</i> https://store.google.com/us/product/google_nest_hub?hl=en-US#overview-modal-music; https://store.google.com/us/product/google_nest_hub_max?hl=en-US; https://support.google.com/googlenest/answer/9165738?hl=en. Similar to the Cast-enabled computing devices, these Cast-enabled displays have Cast-enabled software (e.g., firmware and/or Cast-enabled apps) that allows a user to transfer playback of streaming media content from the Cast-enabled display to another Cast-enabled media player and then control that other Cast-enabled media player’s playback using the Cast-enabled display’s user interface. For purposes of this chart, Cast-enabled computing devices and Cast-enabled displays may be referred to collectively as “Cast-enabled control devices.”</p> <p>Google also hosts backend software on Cloud-based infrastructure owned and/or operated by Google (sometimes referred to as Google Cloud Platform or “GCP” for short) that facilitates the aforementioned Cast functionality for transferring playback of streaming media content from a Cast-enabled control device to a Cast-enabled media player and/or controlling the Cast-enabled media player’s playback.</p> <p>As described in further detail below, each Cast-enabled control device is a “computing device” that practices the method of claim 15. Further, because each Cast-enabled media player is a data network device (<i>i.e., a</i></p>

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Claim 15	Accused Instrumentalities
	<p>device that is configured to connect to and communicate over a medium that interconnects devices in a manner that enables them to send digital data packets to and receive digital data packets from each other) and is configured to process and output audio, each Cast-enabled media player is a “playback device” as recited in claim 15. <i>See, e.g.</i>, Pl.’s Opening Markman Br. (D.I. 60 of 20-cv-881-ADA) at pp. 4-6, 23-26, Exs. 24-25; Pl.’s Reply Markman Br. (D.I. 66 of 20-cv-881-ADA) at pp. 2-3, 10-12, Exs. 26-27; SONOS-SVG2-00018184 - SONOS-SVG2-00018236 [ITC Order No. 20] at p. 15; https://support.google.com/googlenest/answer/7072284?hl=en; https://support.google.com/chromecast/answer/3046409?hl=en; https://store.google.com/us/product/nest_wifi_specs?hl=en-US.</p>
<p>[15.1] operating in a first mode in which the computing device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service;</p>	<p>Each Cast-enabled control device practices the step of operating in a first mode in which the Cast-enabled control device is configured for playback of a remote playback queue provided by a cloud-based computing system associated with a cloud-based media service. <i>See</i> claim limitation 1.4.</p>
<p>[15.2] while operating in the first mode, displaying a representation of one or more playback devices in a media playback system that are each i) communicatively</p>	<p>Each Cast-enabled control device practices the step of, while operating in the first mode, displaying a representation of one or more Cast-enabled media players in a Cast-enabled playback system that are each (i) communicatively coupled to the Cast-enabled control device over a data network and (ii) available to accept playback responsibility for the remote playback queue. <i>See</i> claim limitation 1.5.</p>

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Claim 15	Accused Instrumentalities
coupled to the computing device over a data network and ii) available to accept playback responsibility for the remote playback queue;	
[15.3] while displaying the representation of the one or more playback devices, receiving user input indicating a selection of at least one given playback device from the one or more playback devices;	Each Cast-enabled control device practices the step of, while displaying the representation of the one or more Cast-enabled media players, receiving user input indicating a selection of at least one given Cast-enabled media player from the one or more Cast-enabled media players. <i>See</i> claim limitation 1.6.
[15.4] based on receiving the user input, transmitting an instruction for the at least one given playback device to take over responsibility for playback of the remote playback queue from the computing device,	Each Cast-enabled control device practices the step of, based on receiving the user input, transmitting an instruction for the at least one given Cast-enabled media player to take over responsibility for playback of the remote playback queue from the Cast-enabled control device, wherein the instruction configures the at least one given Cast-enabled media player to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item. <i>See</i> claim limitation 1.7.







Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

Claim 15	Accused Instrumentalities
<p>wherein the instruction configures the at least one given playback device to (i) communicate with the cloud-based computing system in order to obtain data identifying a next one or more media items that are in the remote playback queue, (ii) use the obtained data to retrieve at least one media item in the remote playback queue from the cloud-based media service; and (iii) play back the retrieved at least one media item;</p>	
<p>[15.5] detecting an indication that playback responsibility for the remote playback queue has been successfully</p>	<p>Each Cast-enabled control device practices the step of detecting an indication that playback responsibility for the remote playback queue has been successfully transferred from the Cast-enabled control device to the at least one given Cast-enabled media player. <i>See</i> claim limitation 1.8.</p>

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Claim 15	Accused Instrumentalities
transferred from the computing device to the at least one given playback device;	
[15.6] and after detecting the indication, transitioning from i) the first mode in which the computing device is configured for playback of the remote playback queue to ii) a second mode in which the computing device is configured to control the at least one given playback device's playback of the remote playback queue and the computing device is no longer configured for playback of the remote playback queue.	Each Cast-enabled control device practices the step of, after detecting the indication, transitioning from (i) the first mode in which the Cast-enabled control device is configured for playback of the remote playback queue to (ii) a second mode in which the Cast-enabled control device is configured to control the at least one given Cast-enabled media player's playback of the remote playback queue and the Cast-enabled control device is no longer configured for playback of the remote playback queue. <i>See</i> claim limitation 1.9.

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Claim 16	Accused Instrumentalities
<p>[16.0] The computing device of claim 1, further comprising program instructions stored on the non-transitory computer-readable medium that, when executed by the at least one processor, cause the computing device to perform functions comprising: [16.1] before displaying the representation of the one or more playback devices, receiving an indication that the one or more playback devices in the media playback system are available to accept playback responsibility for the remote playback queue.</p>	<p>As described above, each Cast-enabled control device is a “computing device” as recited in claim 1. Moreover, each Cast-enabled control device further comprises instructions stored on the Cast-enabled control device’s non-transitory computer-readable medium that, when executed by the Cast-enabled control device’s processor, cause the Cast-enabled control device to, before displaying the representation of the one or more Cast-enabled media players, receive an indication that the one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue.</p> <p>For instance, each Cast-enabled control device is programmed with the capability to, before displaying a list of available devices for transferring playback that includes one or more Cast-enabled media players in a Cast-enabled playback system, receive an indication that the one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue, which is demonstrated by the fact that each Cast-enabled control device is capable of displaying the list of devices that are available for casting. <i>See, e.g.,</i> https://support.google.com/googlenest/answer/7181830 [Play media from Chromecast-enabled apps to your speaker or display] (“Tap the Cast button  . . . Tap the speaker or display for which you'd like to cast.”); https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] (“2. In the top right corner, tap the Cast button  3. Choose your speaker.”); https://support.google.com/chromecast/answer/2995235?hl=en-AU [Cast from the YouTube app and YouTube.com] (“Tap the Cast button  . . . Tap the Chromecast device to which you want to cast.”); https://support.google.com/youtubetv/answer/7353493?co=GENIE.Platform%3DAndroid&hl=en [Cast YouTube TV using Chromecast] (“Tap Cast  . This is found at the top of the app Home screen.  Choose the device you want to cast to.”); https://support.google.com/youtubekids/answer/6289408?hl=en&co=GENIE.Platform%3DAndroid [Watch YouTube Kids videos on your TV]; https://support.google.com/chromecast/answer/3265953?hl=en [Chromecast-enabled site vs. casting a tab]; https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another] (“At the bottom-left corner of the screen, tap Devices  to see the list of available devices and speaker groups. . . . Select the device for which you want to move your media.”).</p> <p>This functionality is evidenced by the screenshots above in connection with claim limitation 1.5, which demonstrate that a Cast-enabled control device installed with any one of the YouTube app, the YouTube</p>

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Claim 16	Accused Instrumentalities
	<p>Music app, the YouTube TV app, or the Spotify app (among other Cast-enabled apps) functions to receive an indication that one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue.</p> <p>The evidence also shows that a Cast-enabled control device receives this indication that one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue as part of performing one or more discovery processes ([REDACTED]). Representative examples of this evidence are identified below.</p> <p><u>YouTube, YouTube Music, YouTube TV, & YouTube Kids apps</u></p> <p>The following exemplary evidence demonstrates that each Cast-enabled control device installed with the YouTube, YouTube Music, YouTube TV, or YouTube Kids app is programmed with this functionality:</p> <ul style="list-style-type: none"> • [REDACTED]

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Claim 16	Accused Instrumentalities
	<div data-bbox="564 240 1818 922" style="background-color: black; width: 100%; height: 100%;"></div> <div data-bbox="533 1015 554 1084" style="display: inline-block; vertical-align: middle;">. i</div> <div data-bbox="583 1003 1885 1198" style="display: inline-block; vertical-align: middle; background-color: black; width: 100%; height: 100%;"></div>

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Claim 16	Accused Instrumentalities
	<div data-bbox="583 232 1822 946" style="background-color: black; width: 100%; height: 440px;"></div> <div data-bbox="533 1015 1864 1247"><div data-bbox="533 1015 1864 1174" style="background-color: black; width: 100%; height: 98px;"></div><div data-bbox="533 1174 1785 1247" style="background-color: black; width: 100%; height: 45px;"></div></div>

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Claim 16	Accused Instrumentalities
	<p data-bbox="489 233 1787 302">Representative excerpts of Google’s YouTube³⁸ and YouTube Music³⁹ app source code related to the aforementioned functionality include:</p> <div data-bbox="436 326 1921 695" style="background-color: black; height: 227px; width: 100%;"></div> <p data-bbox="489 719 1860 824">Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p data-bbox="489 865 640 898"><u><i>Spotify app</i></u></p> <p data-bbox="489 938 1887 1117">Each Cast-enabled control device installed with the Spotify app (which is Cast-enabled and utilizes the Cast SDK) is programmed to receive an indication that one or more Cast-enabled media players in the Cast-enabled media playback system are available to accept playback responsibility for the remote playback queue as part of performing one or more discovery processes, such as a discovery process facilitated by the Cast SDK, as demonstrated by the following exemplary evidence:</p> <ul style="list-style-type: none"> <li data-bbox="541 1157 1835 1304">• <div style="background-color: black; display: inline-block; width: 596px; height: 90px; vertical-align: middle;"></div>

³⁸

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Claim 16	Accused Instrumentalities
	<ul style="list-style-type: none"> • https://support.google.com/chromecast/answer/6279384?hl=en [Cast audio from Chromecast-enabled apps to speakers] (listing Spotify as one of the “Chromecast-enabled apps”). <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. See Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p> <p><u>Cast-Enabled Displays</u></p> <p>The following exemplary evidence demonstrates that each Cast-enabled display is programmed with this functionality:</p> <ul style="list-style-type: none"> • [REDACTED] • https://support.google.com/googlenest/answer/9563059?hl=en-IN [Move media from one cast device to another] (“At the bottom-left corner of the screen, tap Devices  to see the list of available devices and speaker groups.”). <p>Representative excerpts of Google’s source code⁴⁰ related to the aforementioned functionality include:</p> <div style="background-color: black; height: 100px; width: 100%;"></div> <div style="background-color: black; height: 100px; width: 100%;"></div>

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Ex. B –Infringement Contention Chart: U.S. Patent No. 10,779,033
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Claim 16	Accused Instrumentalities
	<ul style="list-style-type: none">• [REDACTED] <p>Sonos further incorporates by reference Google’s response to Sonos’s Fact Discovery Interrogatory No. 14, including any of Google’s documents or source code cited therein. <i>See</i> Google LLC’s First Objections and Responses to Plaintiff Sonos, Inc.’s First Set of Fact Discovery Interrogatories.</p>